

## SIDE ROTARY

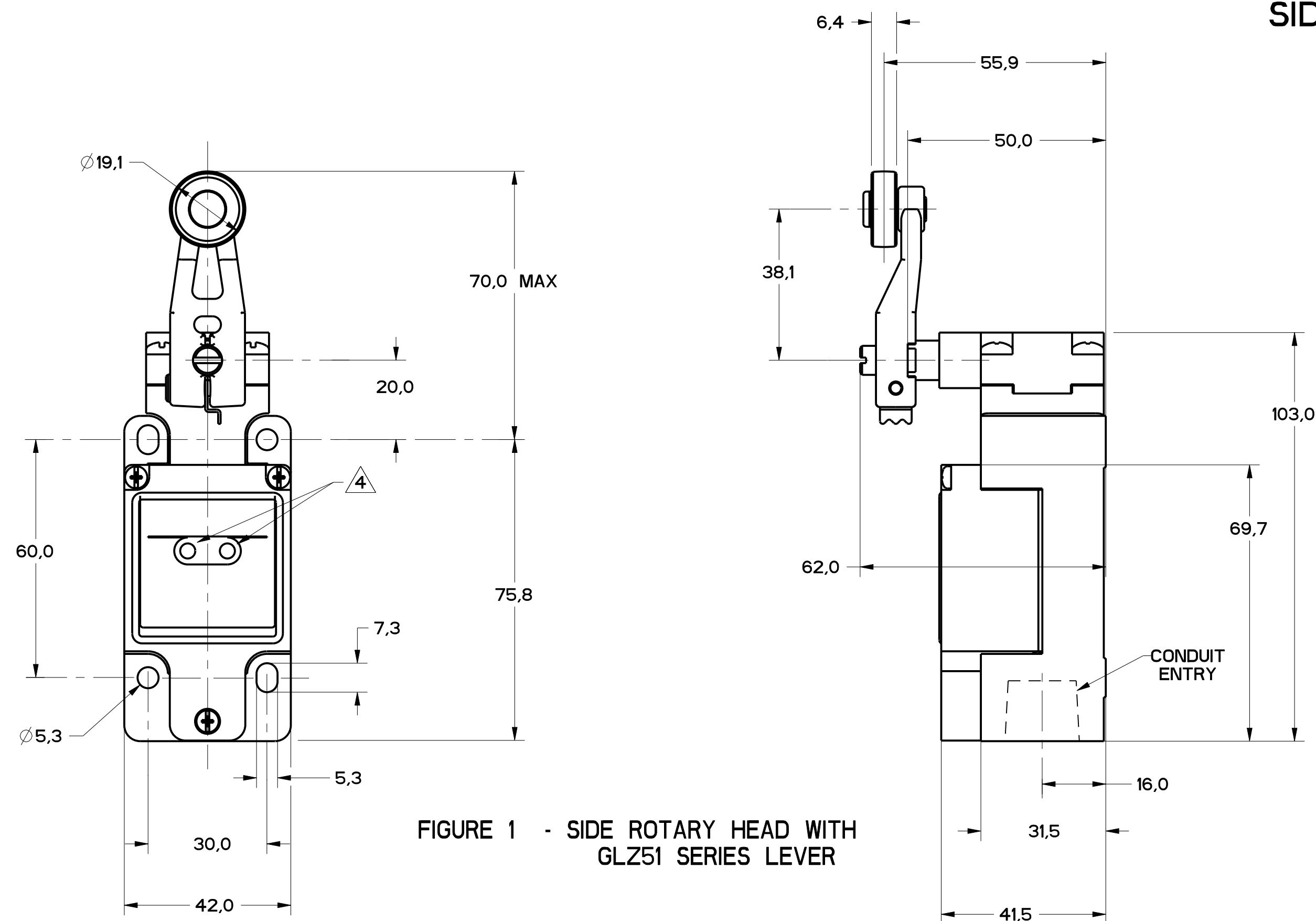


FIGURE 1 - SIDE ROTARY HEAD WITH GLZ51 SERIES LEVER

ALUMINUM ROD  
GLZ54J: 200.00 / 7.870 MAX  
GLZ54K: 140.00 / 5.510 MAX  
STAINLESS STEEL ROD  
GLZ54N: 318.00 / 12.490 MAX

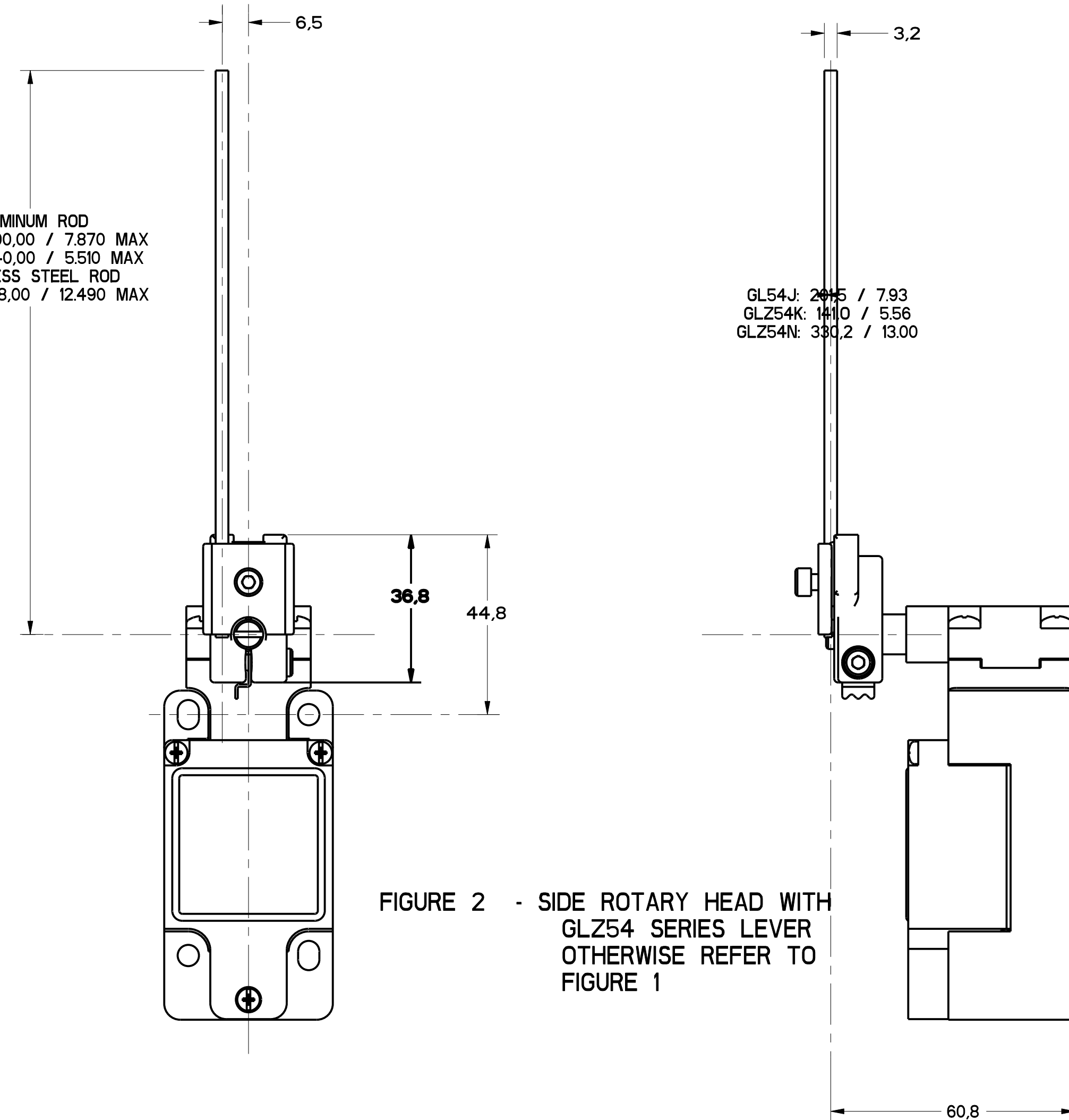


FIGURE 2 - SIDE ROTARY HEAD WITH GLZ54 SERIES LEVER OTHERWISE REFER TO FIGURE 1

| FIGURE | CATALOG LISTING | CONDUIT ENTRY |
|--------|-----------------|---------------|
| 1A     | GL*A SERIES     | 1/2-14 NPT    |
| 1B     | GL*B SERIES     | PG13.5        |
| 1C     | GL*C SERIES     | 20mm          |
| 1D     | GL*D SERIES     | PF1/2         |

| ELECTRICAL RATING $\Delta 5$ |            |            |            |
|------------------------------|------------|------------|------------|
| AC                           |            | DC         |            |
| A600<br>Ue                   | AC15<br>Ie | Q300<br>Ue | DC13<br>Ie |
| (VOLTS)                      | (AMPS)     | (VOLTS)    | (AMPS)     |
| 120                          | 6          | 24         | 2.8        |
| 240                          | 3          | 125        | .55        |
| 380                          | 1.9        | 250        | .27        |
| 480                          | 1.5        |            |            |
| 500                          | 1.4        |            |            |
| 600                          | 1.2        |            |            |

| ENVIRONMENTAL RATING       |
|----------------------------|
| IP67                       |
| NEMA/UL TYPES 1, 4, 12, 13 |

## NOTES

- HEADS MAY BE INDEXED IN 90° INCREMENTS.
- LEVERS MAY BE KEYED TO THE SHAFT AT 90° INCREMENTS. THEY MAY ALSO BE ATTACHED, BUT NOT KEYED ANYWHERE ON THE SHAFT.
- FOR ADDITIONAL LEVERS SEE "M" DRAWING CHART GLZ5
- THE RIGHT INDICATOR IS YELLOW AND INDICATES "OUTPUT STATUS" IT IS ON GLG SERIES PRODUCTS ONLY.
- THE MAXIMUM VOLTAGE,  $V_e$  OF GLG SERIES PRODUCTS IS THE MAXIMUM RATED VOLTAGE OF INDICATION LIGHTS
- FREE POSITION, OPERATE POINT, OVERTRAVEL AND PRETRAVEL ALL TO EN50041
- CAM TRAVEL FOR FIG 9 ONLY APPLIES WHEN LEVER IS ADJUSTED TO 38.1 / 1.50
- TEMPERATURE RANGE  
(ALL PRODUCTS EXCEPT w/SIDE ROTARY OPERATING HEAD)  
OPERATING: -25°C TO +85°C / -13°F TO +185°F  
STORAGE: -40°C TO +85°C / -40°F TO +185°F  
(PRODUCTS w/SIDE ROTARY OPERATING HEAD)  
OPERATING: -40°C TO +85°C / -40°F TO +185°F  
STORAGE: -40°C TO +85°C / -40°F TO +185°F

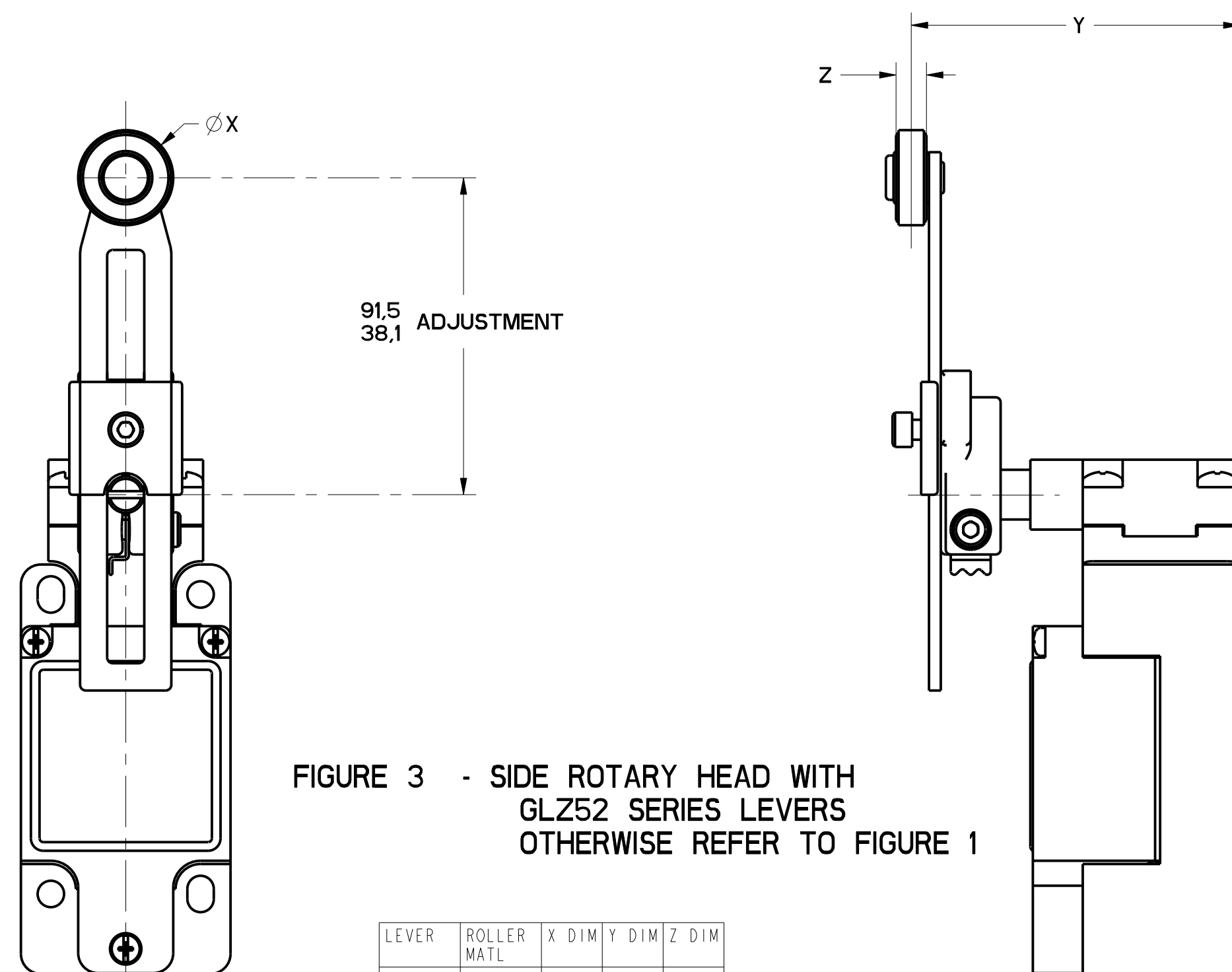


FIGURE 3 - SIDE ROTARY HEAD WITH GLZ52 SERIES LEVERS OTHERWISE REFER TO FIGURE 1

| LEVER  | ROLLER MATL | X DIM       | Y DIM          | Z DIM          |
|--------|-------------|-------------|----------------|----------------|
| GLZ52A | NYLON       | 19.1<br>.75 | 65.9<br>2.59   | 6.4<br>.25     |
| GLZ52B | STEEL       | 19.1<br>.75 | 65.9<br>2.59   | 6.4<br>.25     |
| GLZ52D | NYLON       | 38.1<br>1.5 | 65.9<br>2.59   | 6.4<br>.25     |
| GLZ52E | NYLON       | 19.1<br>.75 | 79.37<br>3.125 | 33.07<br>1.300 |
| GLZ52W | RUBBER      | 40.0<br>1.5 | 71.5<br>2.81   | 12.7<br>.5     |
| GLZ52Y | RUBBER      | 50.9<br>2.0 | 71.5<br>2.81   | 12.7<br>.5     |

| CATALOG LISTING | BODY DIMENSIONS, FIGURE | HEAD DIMENSIONS, FIGURE | HEAD ACTUATION, FIGURE |
|-----------------|-------------------------|-------------------------|------------------------|
| GLB***          | I                       | N/A                     | N/A                    |
| GLG***          | I                       | N/A                     | N/A                    |
| GLJ***          | I                       | N/A                     | N/A                    |
| GLA***          | 1A                      | N/A                     | N/A                    |
| GLB***          | 1B                      | N/A                     | N/A                    |
| GLC***          | 1C                      | N/A                     | N/A                    |
| GLD***          | 1D                      | N/A                     | N/A                    |
| GL***A1*        | I                       | 8                       |                        |
| GL***A2*        | I                       | 3                       | 9                      |
| GL***A4*        | I                       | 2                       | 10                     |
| GL***A5*        | I                       |                         | 8                      |
| GL***B          | I                       | 4                       | 11                     |
| GL***C          | I                       | 5                       | 13A, 13B               |
| GL***D          | I                       | 6                       | 14A, 14B               |
| GL***E7A        | I                       | 7A                      | 12                     |
| GL***E7B        | I                       | 7                       | 12                     |
| GL***E7C        | I                       | 7E                      | 12                     |
| GL***E7D        | I                       | 7B                      | 12                     |
| GL***K8A        | I                       | 7C                      | 15                     |
| GL***K8B        | I                       | 7D                      | 15                     |
| GL***K8C        | I                       | 7                       | 15                     |

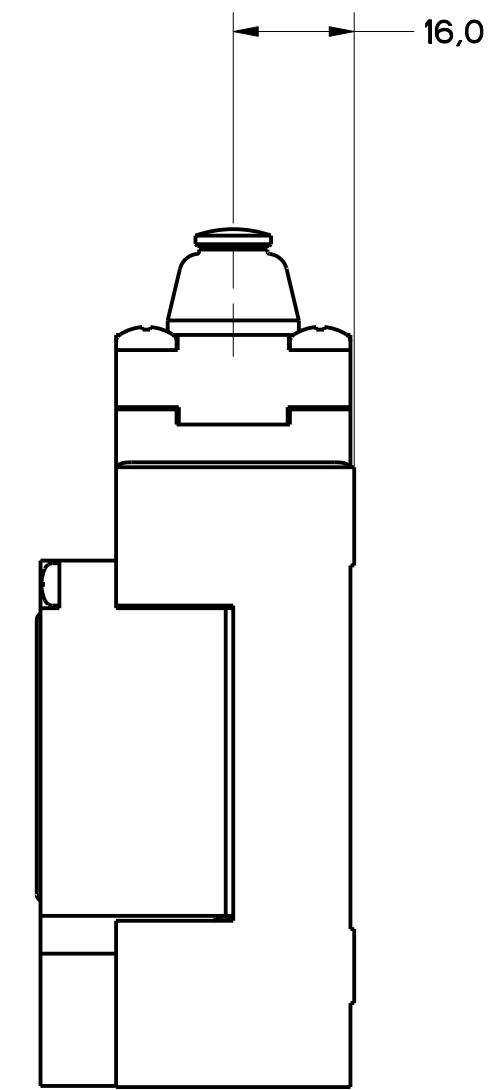
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SWITCH, ENCLOSED

CATALOG LISTING  
**GL SERIES CHART 2**

| THIRD ANGLE PROJECTION                                                                   |       |              |              |
|------------------------------------------------------------------------------------------|-------|--------------|--------------|
| SCALE FULL                                                                               |       |              |              |
| DO NOT SCALE PRINT                                                                       |       |              |              |
| TOLERANCES                                                                               |       |              |              |
| APPLY TO DESIGN UNITS. CONVERSIONS ARE ONLY FOR REFERENCE. UNLESS NOTED, TOLERANCES ARE: |       |              |              |
| NO PLACES                                                                                | INCH  | TOL.         | INCH         |
| ONE PLACE                                                                                | X.X   | 0.01, 0.04   | 0.001, 0.005 |
| TWO PLACES                                                                               | X.XX  | 0.01, 0.06   | 0.001, 0.005 |
| THREE PLACES                                                                             | X.XXX | 0.01, 0.06   | 0.001, 0.005 |
| ANGLES                                                                                   |       | ±2°          |              |
| DESIGN UNITS                                                                             |       | SI METRIC    |              |
|                                                                                          |       | US CUSTOMARY |              |
| WEIGHT                                                                                   |       |              |              |

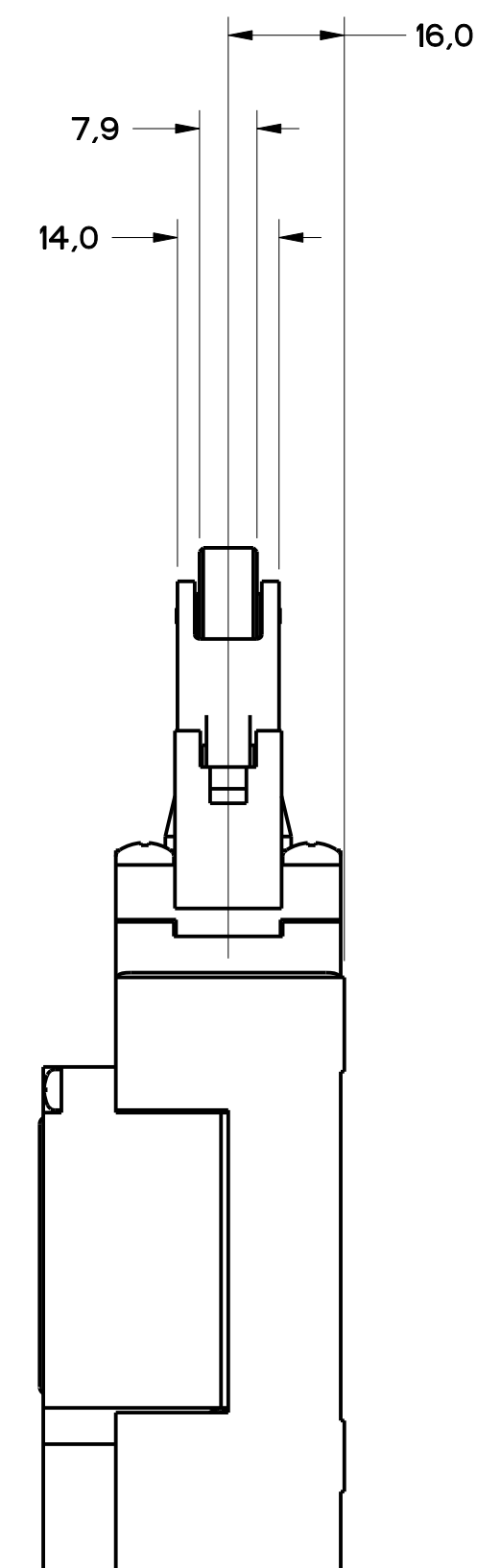


STEEL ROLLER

Ø 12,4

50,5

Technical drawing of a vertical component, likely a valve or actuator. The drawing shows a cross-section of the component. Key dimensions are indicated: a width of 4,7 and a total height of 16,0. The component has a complex, multi-tiered structure with various internal features and a small rectangular protrusion on the left side.



|                                                                                                                                                                                     |         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        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<tr> <td>71</td> <td>0.0015"</td> <td>71</td> <td>0.0015"</td> </tr> <tr> <td>72</td> <td>0.0015"</td> <td>72</td> <td>0.0015"</td> </tr> <tr> <td>73</td> <td>0.0015"</td> <td>73</td> <td>0.0015"</td> </tr> <tr> <td>74</td> <td>0.0015"</td> <td>74</td> <td>0.0015"</td> </tr> <tr> <td>75</td> <td>0.0015"</td> <td>75</td> <td>0.0015"</td> </tr> <tr> <td>76</td> <td>0.0015"</td> <td>76</td> <td>0.0015"</td> </tr> <tr> <td>77</td> <td>0.0015"</td> <td>77</td> <td>0.0015"</td> </tr> <tr> <td>78</td> <td>0.0015"</td> <td>78</td> <td>0.0015"</td> </tr> <tr> <td>79</td> <td>0.0015"</td> <td>79</td> <td>0.0015"</td> </tr> <tr> <td>80</td> <td>0.0015"</td> <td>80</td> <td>0.0015"</td> </tr> <tr> <td>81</td> <td>0.0015"</td> <td>81</td> <td>0.0015"</td> </tr> <tr> <td>82</td> <td>0.0015"</td> <td>82</td> <td>0.0015"</td> </tr> <tr> <td>83</td> <td>0.0015"</td> <td>83</td> <td>0.0015"</td> </tr> <tr> <td>84</td> <td>0.0015"</td> <td>84</td> <td>0.0015"</td> </tr> <tr> <td>85</td> <td>0.0015"</td> <td>85</td> <td>0.0015"</td> </tr> <tr> <td>86</td></tr></table> |         | DIM | TOL | DIM | TOL | 1 | 0.0015" | 1 | 0.0015" | 2 | 0.0015" | 2 | 0.0015" | 3 | 0.0015" | 3 | 0.0015" | 4 | 0.0015" | 4 | 0.0015" | 5 | 0.0015" | 5 | 0.0015" | 6 | 0.0015" | 6 | 0.0015" | 7 | 0.0015" | 7 | 0.0015" | 8 | 0.0015" | 8 | 0.0015" | 9 | 0.0015" | 9 | 0.0015" | 10 | 0.0015" | 10 | 0.0015" | 11 | 0.0015" | 11 | 0.0015" | 12 | 0.0015" | 12 | 0.0015" | 13 | 0.0015" | 13 | 0.0015" | 14 | 0.0015" | 14 | 0.0015" | 15 | 0.0015" | 15 | 0.0015" | 16 | 0.0015" | 16 | 0.0015" | 17 | 0.0015" | 17 | 0.0015" | 18 | 0.0015" | 18 | 0.0015" | 19 | 0.0015" | 19 | 0.0015" | 20 | 0.0015" | 20 | 0.0015" | 21 | 0.0015" | 21 | 0.0015" | 22 | 0.0015" | 22 | 0.0015" | 23 | 0.0015" | 23 | 0.0015" | 24 | 0.0015" | 24 | 0.0015" | 25 | 0.0015" | 25 | 0.0015" | 26 | 0.0015" | 26 | 0.0015" | 27 | 0.0015" | 27 | 0.0015" | 28 | 0.0015" | 28 | 0.0015" | 29 | 0.0015" | 29 | 0.0015" | 30 | 0.0015" | 30 | 0.0015" | 31 | 0.0015" | 31 | 0.0015" | 32 | 0.0015" | 32 | 0.0015" | 33 | 0.0015" | 33 | 0.0015" | 34 | 0.0015" | 34 | 0.0015" | 35 | 0.0015" | 35 | 0.0015" | 36 | 0.0015" | 36 | 0.0015" | 37 | 0.0015" | 37 | 0.0015" | 38 | 0.0015" | 38 | 0.0015" | 39 | 0.0015" | 39 | 0.0015" | 40 | 0.0015" | 40 | 0.0015" | 41 | 0.0015" | 41 | 0.0015" | 42 | 0.0015" | 42 | 0.0015" | 43 | 0.0015" | 43 | 0.0015" | 44 | 0.0015" | 44 | 0.0015" | 45 | 0.0015" | 45 | 0.0015" | 46 | 0.0015" | 46 | 0.0015" | 47 | 0.0015" | 47 | 0.0015" | 48 | 0.0015" | 48 | 0.0015" | 49 | 0.0015" | 49 | 0.0015" | 50 | 0.0015" | 50 | 0.0015" | 51 | 0.0015" | 51 | 0.0015" | 52 | 0.0015" | 52 | 0.0015" | 53 | 0.0015" | 53 | 0.0015" | 54 | 0.0015" | 54 | 0.0015" | 55 | 0.0015" | 55 | 0.0015" | 56 | 0.0015" | 56 | 0.0015" | 57 | 0.0015" | 57 | 0.0015" | 58 | 0.0015" | 58 | 0.0015" | 59 | 0.0015" | 59 | 0.0015" | 60 | 0.0015" | 60 | 0.0015" | 61 | 0.0015" | 61 | 0.0015" | 62 | 0.0015" | 62 | 0.0015" | 63 | 0.0015" | 63 | 0.0015" | 64 | 0.0015" | 64 | 0.0015" | 65 | 0.0015" | 65 | 0.0015" | 66 | 0.0015" | 66 | 0.0015" | 67 | 0.0015" | 67 | 0.0015" | 68 | 0.0015" | 68 | 0.0015" | 69 | 0.0015" | 69 | 0.0015" | 70 | 0.0015" | 70 | 0.0015" | 71 | 0.0015" | 71 | 0.0015" | 72 | 0.0015" | 72 | 0.0015" | 73 | 0.0015" | 73 | 0.0015" | 74 | 0.0015" | 74 | 0.0015" | 75 | 0.0015" | 75 | 0.0015" | 76 | 0.0015" | 76 | 0.0015" | 77 | 0.0015" | 77 | 0.0015" | 78 | 0.0015" | 78 | 0.0015" | 79 | 0.0015" | 79 | 0.0015" | 80 | 0.0015" | 80 | 0.0015" | 81 | 0.0015" | 81 | 0.0015" | 82 | 0.0015" | 82 | 0.0015" | 83 | 0.0015" | 83 | 0.0015" | 84 | 0.0015" | 84 | 0.0015" | 85 | 0.0015" | 85 | 0.0015" | 86 |
| DIM                                                                                                                                                                                 | TOL     | DIM                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    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| 1                                                                                                                                                                                   | 0.0015" | 1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 0.0015" |     |     |     |     |   |         |   |         |   |         |   |         |   |         |   |         |   |         |   |         |   |         |   |         |   |         |   |         |   |         |   |         |   |         |   |         |   |         |   |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |       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| 2                                                                                                                                                                                   | 0.0015" | 2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | 0.0015" |     |     |     |     |   |         |   |         |   |         |   |         |   |         |   |         |   |         |   |         |   |         |   |         |   |         |   |         |   |         |   |         |   |         |   |         |   |         |   |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |       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                                                                                                                                                   | 0.0015" |     |     |     |     |   |         |   |         |   |         |   |         |   |         |   |         |   |         |   |         |   |         |   |         |   |         |   |         |   |         |   |         |   |         |   |         |   |         |   |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |       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| 4                                                                                                                                                                                   | 0.0015" | 4                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      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| 5                                                                                                                                                                                   | 0.0015" | 5                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      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| 6                                                                                                                                                                                   | 0.0015" | 6                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      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| 16                                                                                                                                                                                  | 0.0015" | 16                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     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| 17                                                                                                                                                                                  | 0.0015" | 17                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     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| 18                                                                                                                                                                                  | 0.0015" | 18                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     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| 19                                                                                                                                                                                  | 0.0015" | 19                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     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| 20                                                                                                                                                                                  | 0.0015" | 20                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     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| 21                                                                                                                                                                                  | 0.0015" | 21                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     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| 22                                                                                                                                                                                  | 0.0015" | 22                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     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| 26                                                                                                                                                                                  | 0.0015" | 26                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     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| 27                                                                                                                                                                                  | 0.0015" | 27                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     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| 28                                                                                                                                                                                  | 0.0015" | 28                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     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| 29                                                                                                                                                                                  | 0.0015" | 29                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     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| 33                                                                                                                                                                                  | 0.0015" | 33                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     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| 34                                                                                                                                                                                  | 0.0015" | 34                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     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| 35                                                                                                                                                                                  | 0.0015" | 35                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     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| 36                                                                                                                                                                                  | 0.0015" | 36                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     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| 37                                                                                                                                                                                  | 0.0015" | 37                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     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| 38                                                                                                                                                                                  | 0.0015" | 38                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     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| 39                                                                                                                                                                                  | 0.0015" | 39                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 0.0015" |     |     |     |     |   |         |   |         |   |         |   |         |   |         |   |         |   |         |   |         |   |         |   |         |   |         |   |         |   |         |   |         |   |         |   |         |   |         |   |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |       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| 40                                                                                                                                                                                  | 0.0015" | 40                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 0.0015" |     |     |     |     |   |         |   |         |   |         |   |         |   |         |   |         |   |         |   |         |   |         |   |         |   |         |   |         |   |         |   |         |   |         |   |         |   |         |   |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |       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| 41                                                                                                                                                                                  | 0.0015" | 41                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 0.0015" |     |     |     |     |   |         |   |         |   |         |   |         |   |         |   |         |   |         |   |         |   |         |   |         |   |         |   |         |   |         |   |         |   |         |   |         |   |         |   |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |       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| 42                                                                                                                                                                                  | 0.0015" | 42                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 0.0015" |     |     |     |     |   |         |   |         |   |         |   |         |   |         |   |         |   |         |   |         |   |         |   |         |   |         |   |         |   |         |   |         |   |         |   |         |   |         |   |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |       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| 43                                                                                                                                                                                  | 0.0015" | 43                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 0.0015" |     |     |     |     |   |         |   |         |   |         |   |         |   |         |   |         |   |         |   |         |   |         |   |         |   |         |   |         |   |         |   |         |   |         |   |         |   |         |   |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |       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| 44                                                                                                                                                                                  | 0.0015" | 44                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 0.0015" |     |     |     |     |   |         |   |         |   |         |   |         |   |         |   |         |   |         |   |         |   |         |   |         |   |         |   |         |   |         |   |         |   |         |   |         |   |         |   |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |       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| 45                                                                                                                                                                                  | 0.0015" | 45                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     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| 46                                                                                                                                                                                  | 0.0015" | 46                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     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| 47                                                                                                                                                                                  | 0.0015" | 47                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     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| 48                                                                                                                                                                                  | 0.0015" | 48                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     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| 49                                                                                                                                                                                  | 0.0015" | 49                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 0.0015" |     |     |     |     |   |         |   |         |   |         |   |         |   |         |   |         |   |         |   |         |   |         |   |         |   |         |   |         |   |         |   |         |   |         |   |         |   |         |   |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |       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| 50                                                                                                                                                                                  | 0.0015" | 50                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 0.0015" |     |     |     |     |   |         |   |         |   |         |   |         |   |         |   |         |   |         |   |         |   |         |   |         |   |         |   |         |   |         |   |         |   |         |   |         |   |         |   |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |       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| 51                                                                                                                                                                                  | 0.0015" | 51                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 0.0015" |     |     |     |     |   |         |   |         |   |         |   |         |   |         |   |         |   |         |   |         |   |         |   |         |   |         |   |         |   |         |   |         |   |         |   |         |   |         |   |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |       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| 52                                                                                                                                                                                  | 0.0015" | 52                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 0.0015" |     |     |     |     |   |         |   |         |   |         |   |         |   |         |   |         |   |         |   |         |   |         |   |         |   |         |   |         |   |         |   |         |   |         |   |         |   |         |   |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |       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| 53                                                                                                                                                                                  | 0.0015" | 53                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     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| 54                                                                                                                                                                                  | 0.0015" | 54                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     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| 55                                                                                                                                                                                  | 0.0015" | 55                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     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| 56                                                                                                                                                                                  | 0.0015" | 56                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 0.0015" |     |     |     |     |   |         |   |         |   |         |   |         |   |         |   |         |   |         |   |         |   |         |   |         |   |         |   |         |   |         |   |         |   |         |   |         |   |         |   |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |       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| 57                                                                                                                                                                                  | 0.0015" | 57                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     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| 58                                                                                                                                                                                  | 0.0015" | 58                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 0.0015" |     |     |     |     |   |         |   |         |   |         |   |         |   |         |   |         |   |         |   |         |   |         |   |         |   |         |   |         |   |         |   |         |   |         |   |         |   |         |   |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |       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| 59                                                                                                                                                                                  | 0.0015" | 59                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     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| 60                                                                                                                                                                                  | 0.0015" | 60                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     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| 61                                                                                                                                                                                  | 0.0015" | 61                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     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| 62                                                                                                                                                                                  | 0.0015" | 62                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     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| 63                                                                                                                                                                                  | 0.0015" | 63                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     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| 64                                                                                                                                                                                  | 0.0015" | 64                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     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| 65                                                                                                                                                                                  | 0.0015" | 65                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     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| 66                                                                                                                                                                                  | 0.0015" | 66                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     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| 67                                                                                                                                                                                  | 0.0015" | 67                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     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| 68                                                                                                                                                                                  | 0.0015" | 68                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     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| 69                                                                                                                                                                                  | 0.0015" | 69                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     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| 70                                                                                                                                                                                  | 0.0015" | 70                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     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| 71                                                                                                                                                                                  | 0.0015" | 71                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     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| 72                                                                                                                                                                                  | 0.0015" | 72                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 0.0015" |     |     |     |     |   |         |   |         |   |         |   |         |   |         |   |         |   |         |   |         |   |         |   |         |   |         |   |         |   |         |   |         |   |         |   |         |   |         |   |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |       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| 73                                                                                                                                                                                  | 0.0015" | 73                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 0.0015" |     |     |     |     |   |         |   |         |   |         |   |         |   |         |   |         |   |         |   |         |   |         |   |         |   |         |   |         |   |         |   |         |   |         |   |         |   |         |   |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |       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| 74                                                                                                                                                                                  | 0.0015" | 74                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 0.0015" |     |     |     |     |   |         |   |         |   |         |   |         |   |         |   |         |   |         |   |         |   |         |   |         |   |         |   |         |   |         |   |         |   |         |   |         |   |         |   |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |       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| 75                                                                                                                                                                                  | 0.0015" | 75                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 0.0015" |     |     |     |     |   |         |   |         |   |         |   |         |   |         |   |         |   |         |   |         |   |         |   |         |   |         |   |         |   |         |   |         |   |         |   |         |   |         |   |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |       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| 76                                                                                                                                                                                  | 0.0015" | 76                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 0.0015" |     |     |     |     |   |         |   |         |   |         |   |         |   |         |   |         |   |         |   |         |   |         |   |         |   |         |   |         |   |         |   |         |   |         |   |         |   |         |   |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |       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| 77                                                                                                                                                                                  | 0.0015" | 77                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | 0.0015" |     |     |     |     |   |         |   |         |   |         |   |         |   |         |   |         |   |         |   |         |   |         |   |         |   |         |   |         |   |         |   |         |   |         |   |         |   |         |   |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |         |    |       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| 78                                                                                                                                                                                  | 0.0015" | 78                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     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| 83                                                                                                                                                                                  | 0.0015" | 83                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     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| 84                                                                                                                                                                                  | 0.0015" | 84                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     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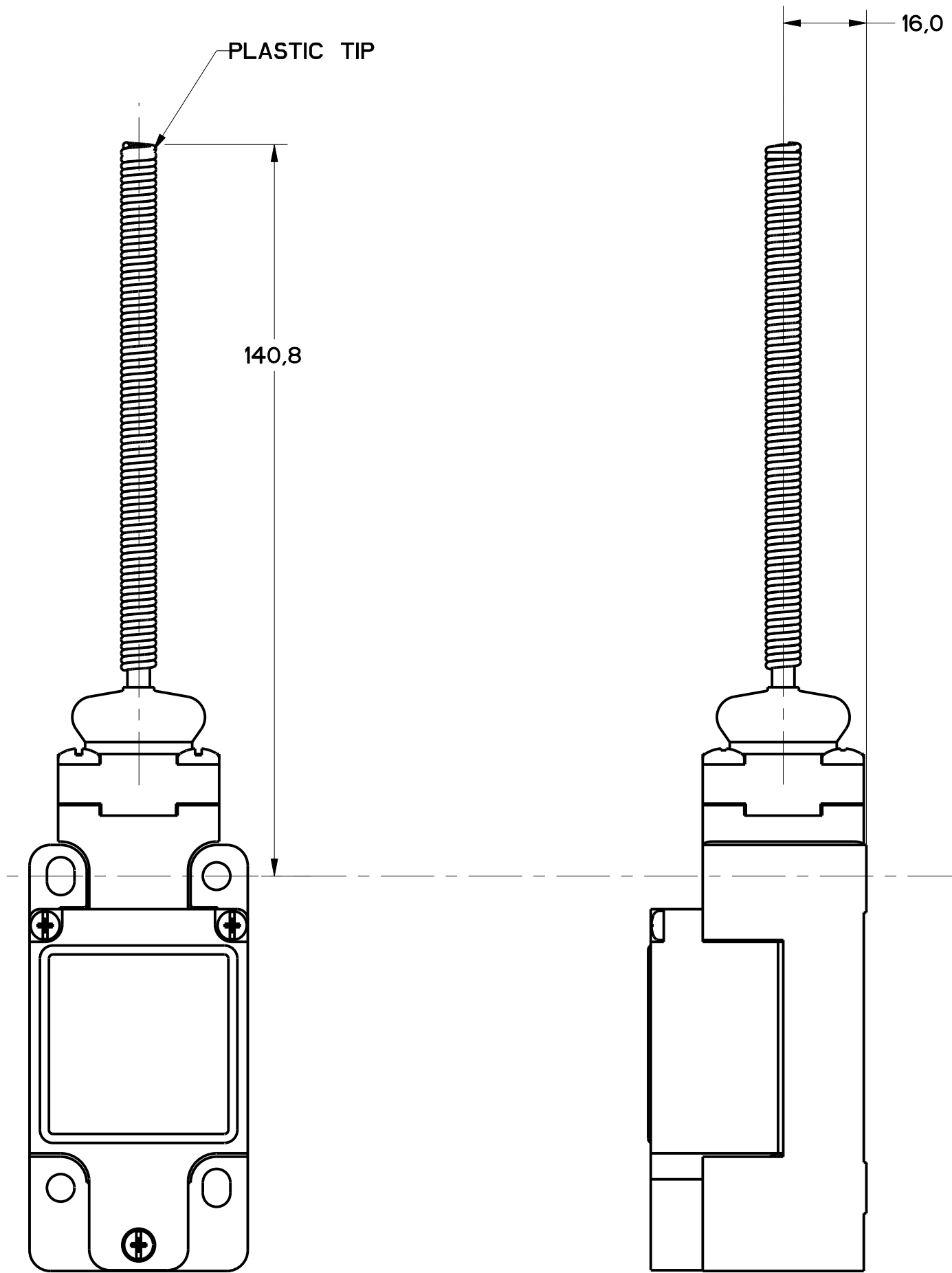


FIGURE 7 - WOBBLE HEAD, AND CAT WHISKER HEAD  
COIL ACTUATOR,  
OTHERWISE REFER TO  
FIGURE 1

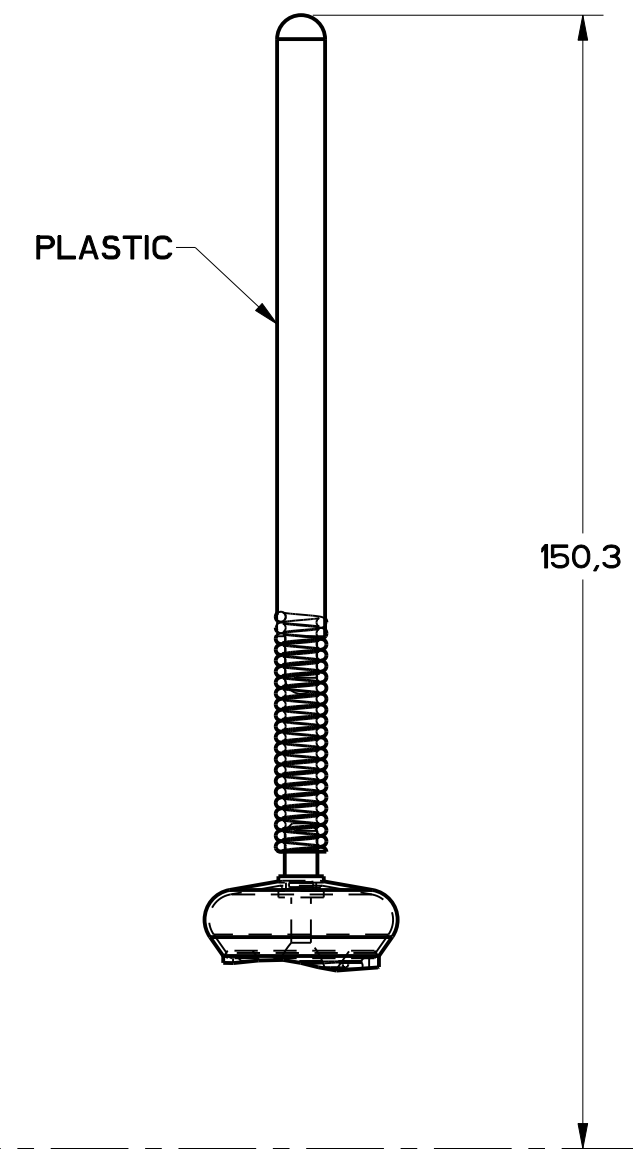


FIGURE 7A -  
WOBBLE HEAD,  
PLASTIC ACTUATOR,  
OTHERWISE SAME AS FIGURE 7

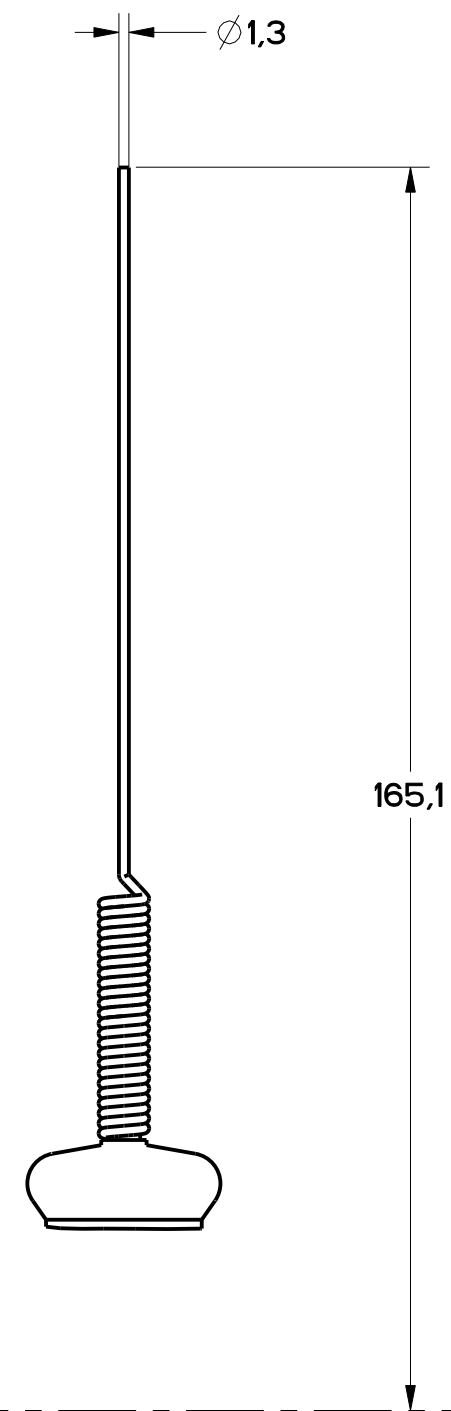


FIGURE 7B -  
WOBBLE HEAD  
STAINLESS STEEL SPRING  
ACTUATOR, OTHERWISE  
SAME AS FIGURE 7

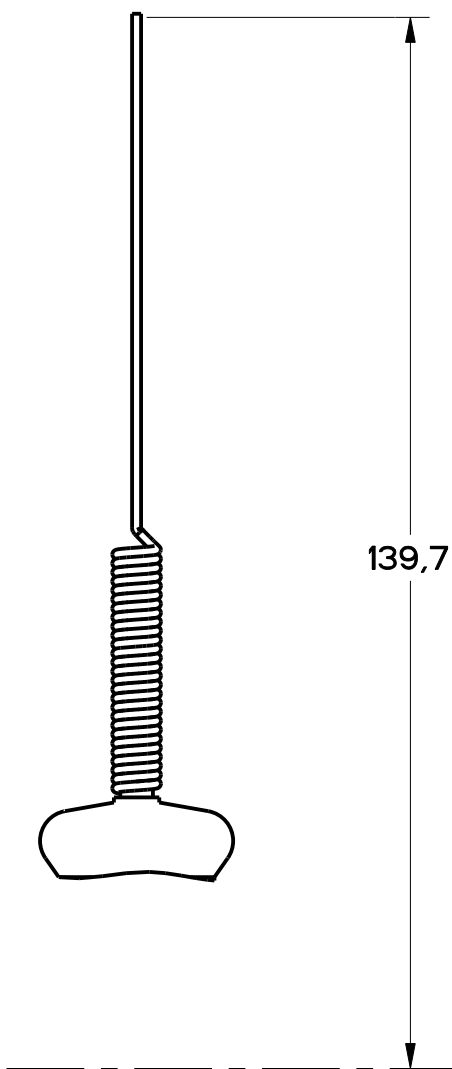


FIGURE 7C -  
CAT WHISKER  
ACTUATOR STAINLESS  
STEEL SPRING  
OTHERWISE SAME AS  
FIGURE 7

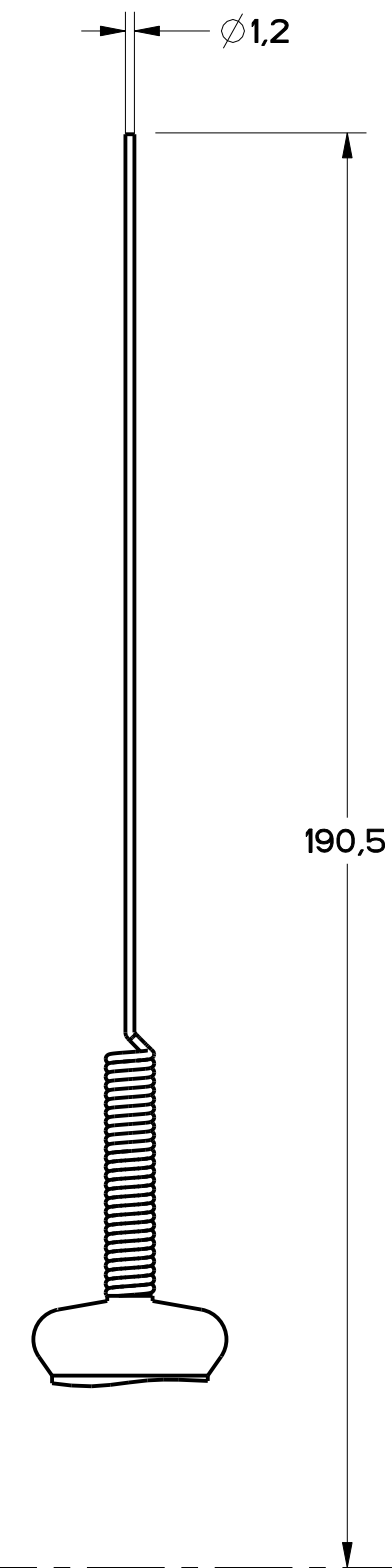


FIGURE 7D -  
CAT WHISKER  
ACTUATOR, STAINLESS  
STEEL SPRING,  
OTHERWISE SAME  
AS FIGURE 7

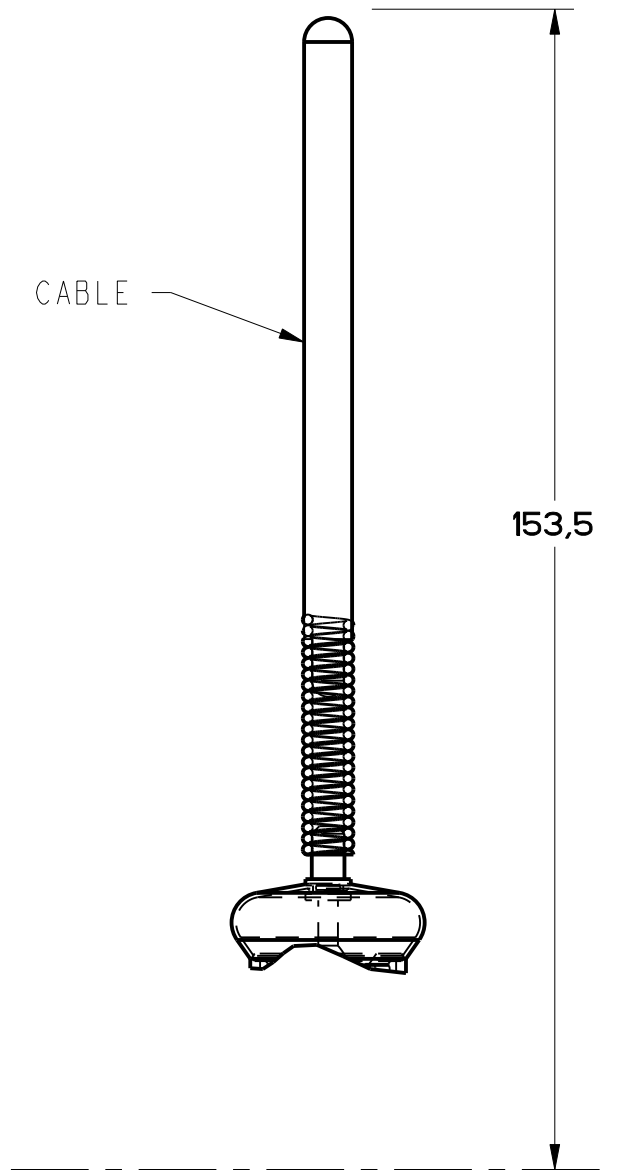


FIGURE 7E -  
CABLE WOBBLE  
ACTUATOR  
OTHERWISE SAME  
AS FIGURE 7

|              |       |              |       |                    |                      |
|--------------|-------|--------------|-------|--------------------|----------------------|
| PTC/CAD      |       | DRAWN        |       | MGL SERIES CHART 2 |                      |
| SAV 7 MAY 96 | CHECK | SAV 7 MAY 96 | CHECK | WDM                | PAGE 3 OF 8          |
| 02DEC05      | CHECK | RJ           | CHECK | 02DEC05            | RELEASE NO. PR-21557 |
| 001753Z      |       |              |       |                    | REPLACES             |
| 020FC05      |       |              |       |                    |                      |
| 20 JAN04     |       |              |       |                    |                      |
| D 0002866    |       |              |       |                    |                      |
| 2 JUN03      |       |              |       |                    |                      |
| 04H          |       |              |       |                    |                      |
| AND238       |       |              |       |                    |                      |
| CO-2103      |       |              |       |                    |                      |
| A V V        |       |              |       |                    |                      |
| 5 MAY 96     |       |              |       |                    |                      |
| 21557        |       |              |       |                    |                      |
| PR           |       |              |       |                    |                      |
| REVISIONS    |       |              |       |                    |                      |
| A            |       |              |       |                    |                      |
| B            |       |              |       |                    |                      |
| C            |       |              |       |                    |                      |
| D            |       |              |       |                    |                      |
| E            |       |              |       |                    |                      |
| F            |       |              |       |                    |                      |
| G            |       |              |       |                    |                      |
| H            |       |              |       |                    |                      |
| I            |       |              |       |                    |                      |
| J            |       |              |       |                    |                      |
| K            |       |              |       |                    |                      |
| L            |       |              |       |                    |                      |
| M            |       |              |       |                    |                      |
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| P            |       |              |       |                    |                      |
| Q            |       |              |       |                    |                      |
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| S            |       |              |       |                    |                      |
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| W            |       |              |       |                    |                      |
| X            |       |              |       |                    |                      |
| Y            |       |              |       |                    |                      |
| Z            |       |              |       |                    |                      |
| AA           |       |              |       |                    |                      |
| AB           |       |              |       |                    |                      |
| AC           |       |              |       |                    |                      |
| AD           |       |              |       |                    |                      |
| AE           |       |              |       |                    |                      |
| AF           |       |              |       |                    |                      |
| AG           |       |              |       |                    |                      |
| AH           |       |              |       |                    |                      |
| AI           |       |              |       |                    |                      |
| AJ           |       |              |       |                    |                      |
| AK           |       |              |       |                    |                      |
| AL           |       |              |       |                    |                      |
| AM           |       |              |       |                    |                      |
| AN           |       |              |       |                    |                      |
| AO           |       |              |       |                    |                      |
| AP           |       |              |       |                    |                      |
| AQ           |       |              |       |                    |                      |
| AR           |       |              |       |                    |                      |
| AS           |       |              |       |                    |                      |
| AT           |       |              |       |                    |                      |
| AU           |       |              |       |                    |                      |
| AV           |       |              |       |                    |                      |
| AW           |       |              |       |                    |                      |
| AX           |       |              |       |                    |                      |
| AY           |       |              |       |                    |                      |
| AZ           |       |              |       |                    |                      |
| BA           |       |              |       |                    |                      |
| BB           |       |              |       |                    |                      |
| BC           |       |              |       |                    |                      |
| BD           |       |              |       |                    |                      |
| BE           |       |              |       |                    |                      |
| BF           |       |              |       |                    |                      |
| BG           |       |              |       |                    |                      |
| BH           |       |              |       |                    |                      |
| BI           |       |              |       |                    |                      |
| BJ           |       |              |       |                    |                      |
| BK           |       |              |       |                    |                      |
| BL           |       |              |       |                    |                      |
| BM           |       |              |       |                    |                      |
| BN           |       |              |       |                    |                      |
| BO           |       |              |       |                    |                      |
| BP           |       |              |       |                    |                      |
| BQ           |       |              |       |                    |                      |
| BR           |       |              |       |                    |                      |
| BS           |       |              |       |                    |                      |
| BT           |       |              |       |                    |                      |
| BU           |       |              |       |                    |                      |
| BV           |       |              |       |                    |                      |
| BW           |       |              |       |                    |                      |
| BX           |       |              |       |                    |                      |
| BY           |       |              |       |                    |                      |
| BZ           |       |              |       |                    |                      |
| CA           |       |              |       |                    |                      |
| CB           |       |              |       |                    |                      |
| CC           |       |              |       |                    |                      |
| CD           |       |              |       |                    |                      |
| CE           |       |              |       |                    |                      |
| CF           |       |              |       |                    |                      |
| CG           |       |              |       |                    |                      |
| CH           |       |              |       |                    |                      |
| CI           |       |              |       |                    |                      |
| CJ           |       |              |       |                    |                      |

|                                                                                                                                                                                     |  |                                                                                                                                                                      |  |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|----------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|
| THIS DRAWING COVERS A PROPRIETARY ITEM AND IS THE PROPERTY OF MICRO SWITCH, A DIVISION OF HONEYWELL. THIS DRAWING IS NOT TO BE COPIED OR USED WITHOUT THE APPROVAL OF MICRO SWITCH. |  | DIM<br>mm<br>TOL<br>mm / in<br>DIM<br>in<br>TOL<br>in                                                                                                                |  |
| FED. MFG. CODE 91929                                                                                                                                                                |  | NO PLACES<br>ONE PLACE<br>TWO PLACES<br>THREE PLACES<br>ANGLES<br>X<br>X, Y<br>X, Y<br>X, Y<br>0<br>0.47-0.008<br>0.157-0.008<br>±0.001<br>SI METRIC<br>US CUSTOMARY |  |
| <b>MICRO SWITCH</b><br>a Honeywell Division                                                                                                                                         |  | SWITCH, ENCLOSED<br>GL SERIES CHART 2                                                                                                                                |  |
|                                                                                                                                                                                     |  | DESIGN UNITS <input checked="" type="checkbox"/> WEIGHT <input type="checkbox"/>                                                                                     |  |



| CAM ACTUATION PER EN50041, FIGURES 8 AND 9  |                                                                                                                             |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |                                                                                                                |                                                                                                                 |                                                                                                          |                                                                                                          |                               |
|--------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------|-------------------------------|
| CATALOG LISTING                                                                                                                | CONTACT BLOCK DIAGRAM                                                                                                       |  NOMINAL TRAVELS AND RELATED TERMINALS<br> CONTACT CLOSED,  CONTACT OPEN  - CONTACT CLOSED<br>DIFFERENTIAL TRAVEL, ** POSITIVE OPENING TO IEC 947-5-1<br>DIMENSIONS IN mm | MAXIMUM OPERATING FORCE  LB | MAXIMUM DISCONNECT FORCE  LB | MAX OPERATE VEL  in/S | MIN OPERATE VEL  in/S | MAX OPERATE FREQUENCY OPS/MIN |
| GL**02A*                                                                                                                       | SNAP - ACTION CONTACTS SINGLE POLE<br> |                                                                                                                                                                                                                                                                                                                                                                                                                                  | $\frac{9.7}{2.2}$                                                                                              | $\frac{11.4}{2.6}$                                                                                              | $\frac{.85}{33.5}$                                                                                       | $\frac{8.5}{.33}$                                                                                        | 250                           |

|                                                                                                                                                                                     |                                     |                                                                                                                                                                                                                                                                                                                                                                        |                                                                                                                                                       |              |                                                                                                                                                       |              |                                     |              |                          |            |            |            |      |            |            |              |  |  |            |        |  |      |  |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------|--------------|-------------------------------------------------------------------------------------------------------------------------------------------------------|--------------|-------------------------------------|--------------|--------------------------|------------|------------|------------|------|------------|------------|--------------|--|--|------------|--------|--|------|--|
| THIS DRAWING COVERS A PROPRIETARY ITEM AND IS THE PROPERTY OF MICRO SWITCH, A DIVISION OF HONEYWELL. THIS DRAWING IS NOT TO BE COPIED OR USED WITHOUT THE APPROVAL OF MICRO SWITCH. |                                     | <table><tr><td>DIM</td><td>TOL</td><td>DIM</td><td>TOL</td></tr><tr><td>mm</td><td>mm</td><td>mm</td><td>mm</td></tr></table>                                                                                                                                                                                                                                          |                                                                                                                                                       | DIM          | TOL                                                                                                                                                   | DIM          | TOL                                 | mm           | mm                       | mm         | mm         |            |      |            |            |              |  |  |            |        |  |      |  |
| DIM                                                                                                                                                                                 | TOL                                 | DIM                                                                                                                                                                                                                                                                                                                                                                    | TOL                                                                                                                                                   |              |                                                                                                                                                       |              |                                     |              |                          |            |            |            |      |            |            |              |  |  |            |        |  |      |  |
| mm                                                                                                                                                                                  | mm                                  | mm                                                                                                                                                                                                                                                                                                                                                                     | mm                                                                                                                                                    |              |                                                                                                                                                       |              |                                     |              |                          |            |            |            |      |            |            |              |  |  |            |        |  |      |  |
| FED. MFG. CODE 91929                                                                                                                                                                |                                     | <table><tr><td>NO PLACES</td><td>2</td><td>1 / 64</td><td>1.5</td></tr><tr><td>ONE PLACE</td><td>X .8</td><td>0 .41 / 16</td><td>0 .81 / 16</td></tr><tr><td>TWO PLACES</td><td>X .3</td><td>0 .15 / 32</td><td>0 .38 / 32</td></tr><tr><td>THREE PLACES</td><td></td><td></td><td>1 .13 / 32</td></tr><tr><td>ANGLES</td><td></td><td>± 2°</td><td></td></tr></table> |                                                                                                                                                       | NO PLACES    | 2                                                                                                                                                     | 1 / 64       | 1.5                                 | ONE PLACE    | X .8                     | 0 .41 / 16 | 0 .81 / 16 | TWO PLACES | X .3 | 0 .15 / 32 | 0 .38 / 32 | THREE PLACES |  |  | 1 .13 / 32 | ANGLES |  | ± 2° |  |
| NO PLACES                                                                                                                                                                           | 2                                   | 1 / 64                                                                                                                                                                                                                                                                                                                                                                 | 1.5                                                                                                                                                   |              |                                                                                                                                                       |              |                                     |              |                          |            |            |            |      |            |            |              |  |  |            |        |  |      |  |
| ONE PLACE                                                                                                                                                                           | X .8                                | 0 .41 / 16                                                                                                                                                                                                                                                                                                                                                             | 0 .81 / 16                                                                                                                                            |              |                                                                                                                                                       |              |                                     |              |                          |            |            |            |      |            |            |              |  |  |            |        |  |      |  |
| TWO PLACES                                                                                                                                                                          | X .3                                | 0 .15 / 32                                                                                                                                                                                                                                                                                                                                                             | 0 .38 / 32                                                                                                                                            |              |                                                                                                                                                       |              |                                     |              |                          |            |            |            |      |            |            |              |  |  |            |        |  |      |  |
| THREE PLACES                                                                                                                                                                        |                                     |                                                                                                                                                                                                                                                                                                                                                                        | 1 .13 / 32                                                                                                                                            |              |                                                                                                                                                       |              |                                     |              |                          |            |            |            |      |            |            |              |  |  |            |        |  |      |  |
| ANGLES                                                                                                                                                                              |                                     | ± 2°                                                                                                                                                                                                                                                                                                                                                                   |                                                                                                                                                       |              |                                                                                                                                                       |              |                                     |              |                          |            |            |            |      |            |            |              |  |  |            |        |  |      |  |
| <b>MICRO SWITCH</b><br>a Honeywell Division                                                                                                                                         |                                     | CATALOG LISTING                                                                                                                                                                                                                                                                                                                                                        |                                                                                                                                                       |              |                                                                                                                                                       |              |                                     |              |                          |            |            |            |      |            |            |              |  |  |            |        |  |      |  |
|                                                                                                                                                                                     |                                     | GL SERIES CHART 2                                                                                                                                                                                                                                                                                                                                                      |                                                                                                                                                       |              |                                                                                                                                                       |              |                                     |              |                          |            |            |            |      |            |            |              |  |  |            |        |  |      |  |
| SWITCH, ENCLOSED                                                                                                                                                                    |                                     | <table><tr><td>DESIGN UNITS</td><td><table><tr><td>SI METRIC</td><td><input checked="" type="checkbox"/></td></tr><tr><td>US CUSTOMARY</td><td><input type="checkbox"/></td></tr></table></td></tr></table>                                                                                                                                                            |                                                                                                                                                       | DESIGN UNITS | <table><tr><td>SI METRIC</td><td><input checked="" type="checkbox"/></td></tr><tr><td>US CUSTOMARY</td><td><input type="checkbox"/></td></tr></table> | SI METRIC    | <input checked="" type="checkbox"/> | US CUSTOMARY | <input type="checkbox"/> |            |            |            |      |            |            |              |  |  |            |        |  |      |  |
|                                                                                                                                                                                     |                                     | DESIGN UNITS                                                                                                                                                                                                                                                                                                                                                           | <table><tr><td>SI METRIC</td><td><input checked="" type="checkbox"/></td></tr><tr><td>US CUSTOMARY</td><td><input type="checkbox"/></td></tr></table> | SI METRIC    | <input checked="" type="checkbox"/>                                                                                                                   | US CUSTOMARY | <input type="checkbox"/>            |              |                          |            |            |            |      |            |            |              |  |  |            |        |  |      |  |
| SI METRIC                                                                                                                                                                           | <input checked="" type="checkbox"/> |                                                                                                                                                                                                                                                                                                                                                                        |                                                                                                                                                       |              |                                                                                                                                                       |              |                                     |              |                          |            |            |            |      |            |            |              |  |  |            |        |  |      |  |
| US CUSTOMARY                                                                                                                                                                        | <input type="checkbox"/>            |                                                                                                                                                                                                                                                                                                                                                                        |                                                                                                                                                       |              |                                                                                                                                                       |              |                                     |              |                          |            |            |            |      |            |            |              |  |  |            |        |  |      |  |
| WEIGHT                                                                                                                                                                              |                                     |                                                                                                                                                                                                                                                                                                                                                                        |                                                                                                                                                       |              |                                                                                                                                                       |              |                                     |              |                          |            |            |            |      |            |            |              |  |  |            |        |  |      |  |



FIGURE 12



| FIGURE 12, WOBBLE HEAD, SIDE ACTUATION AT 100mm |                                           |                                                                                                                                                              |                                           |                                            |                                       |                                        |                                  |
|-------------------------------------------------|-------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------|--------------------------------------------|---------------------------------------|----------------------------------------|----------------------------------|
| CATALOG LISTING                                 | CONTACT BLOCK DIAGRAM                     | NOMINAL TRAVELS AND RELATED TERMINALS<br>■ - CONTACT CLOSED, □ - CONTACT OPEN, ▨ - CONTACT CLOSED<br>DIFFERENTIAL TRAVEL, ** POSITIVE OPENING TO IEC 947-5-1 | MAXIMUM OPERATING FORCE<br>$\frac{N}{LB}$ | MAXIMUM DISCONNECT FORCE<br>$\frac{N}{LB}$ | MAX OPERATE VEL<br>$\frac{M/S}{IN/S}$ | MIN OPERATE VEL<br>$\frac{MM/S}{IN/S}$ | MAX OPERATE FREQUENCY<br>OPS/MIN |
| GL**02E                                         | SNAP - ACTION CONTACTS<br>SINGLE POLE<br> | <p>21-22 26 13-14 12 DIFFERENTIAL TRAVEL</p>                                                                                                                 | $\frac{2.5}{0.6}$                         | N/A                                        | $\frac{5}{19.7}$                      | $\frac{11}{.43}$                       | 100                              |

| <br>THIRD ANGLE PROJECTION                                                                                                                                                                                      |        | SCALE <span style="font-size: 1.5em;">FULL</span>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |            |  |     |     |     |  |    |    |       |           |      |      |            |           |      |      |       |            |      |      |       |              |      |      |       |        |        |        |          |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------|--|-----|-----|-----|--|----|----|-------|-----------|------|------|------------|-----------|------|------|-------|------------|------|------|-------|--------------|------|------|-------|--------|--------|--------|----------|
|                                                                                                                                                                                                                 |        | DO NOT SCALE PRINT<br>TOLERANCES<br>APPLY TO DESIGN UNITS. CONVERSIONS ARE ONLY FOR REFERENCE. UNLESS NOTED, TOLERANCES ARE:                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |            |  |     |     |     |  |    |    |       |           |      |      |            |           |      |      |       |            |      |      |       |              |      |      |       |        |        |        |          |
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|                                                                                                                                                                                                                 | TOL    | FIN                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | TOL        |  |     |     |     |  |    |    |       |           |      |      |            |           |      |      |       |            |      |      |       |              |      |      |       |        |        |        |          |
|                                                                                                                                                                                                                 | mm     | mm                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | mm/in      |  |     |     |     |  |    |    |       |           |      |      |            |           |      |      |       |            |      |      |       |              |      |      |       |        |        |        |          |
| NO PLACES                                                                                                                                                                                                       | 0.01   | 0.01                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 0.01/0.001 |  |     |     |     |  |    |    |       |           |      |      |            |           |      |      |       |            |      |      |       |              |      |      |       |        |        |        |          |
| ONE PLACE                                                                                                                                                                                                       | 0.05   | 0.05                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 0.002      |  |     |     |     |  |    |    |       |           |      |      |            |           |      |      |       |            |      |      |       |              |      |      |       |        |        |        |          |
| TWO PLACES                                                                                                                                                                                                      | 0.10   | 0.10                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 0.005      |  |     |     |     |  |    |    |       |           |      |      |            |           |      |      |       |            |      |      |       |              |      |      |       |        |        |        |          |
| THREE PLACES                                                                                                                                                                                                    | 0.15   | 0.15                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | 0.005      |  |     |     |     |  |    |    |       |           |      |      |            |           |      |      |       |            |      |      |       |              |      |      |       |        |        |        |          |
| ANGLES                                                                                                                                                                                                          | ± 0.1° | ± 0.1°                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | ± 0.001°   |  |     |     |     |  |    |    |       |           |      |      |            |           |      |      |       |            |      |      |       |              |      |      |       |        |        |        |          |
| <br><b>MICRO SWITCH</b><br>a Honeywell Division                                                                                                                                                                 |        | <b>SWITCH, ENCLOSED</b><br><br><b>GL SERIES CHART 2</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |            |  |     |     |     |  |    |    |       |           |      |      |            |           |      |      |       |            |      |      |       |              |      |      |       |        |        |        |          |

| REVISIONS |    |       |
|-----------|----|-------|
| A         | CO | 78529 |
| B         | CS | 81101 |
| C         | CO | 93188 |
| D         | CO | 93188 |
| E         | CO | 93188 |
| F         | CO | 93188 |
| G         | CO | 93188 |
| H         | CO | 93188 |
| I         | CO | 93188 |
| J         | CO | 93188 |
| K         | CO | 93188 |
| L         | CO | 93188 |
| M         | CO | 93188 |
| N         | CO | 93188 |
| O         | CO | 93188 |
| P         | CO | 93188 |
| Q         | CO | 93188 |
| R         | CO | 93188 |
| S         | CO | 93188 |
| T         | CO | 93188 |
| U         | CO | 93188 |
| V         | CO | 93188 |
| W         | CO | 93188 |
| X         | CO | 93188 |
| Y         | CO | 93188 |
| Z         | CO | 93188 |

FIGURE 13A, ROLLER PLUNGER HEAD, PIN ACTUATION

| CATALOG LISTING | CONTACT BLOCK DIAGRAM                     | NOMINAL TRAVELS AND RELATED TERMINALS<br>CONTACT CLOSED, CONTACT OPEN, CONTACT CLOSED<br>DIFFERENTIAL TRAVEL, ** POSITIVE OPENING TO IEC 947-5-1 | MAXIMUM OPERATING FORCE<br>N<br>LB | MAXIMUM DISCONNECT FORCE<br>N<br>LB | MAX OPERATE VEL<br>M/S<br>in/s | MIN OPERATE VEL<br>M/S<br>in/s | MAX OPERATE FREQUENCY<br>OPS/MIN |
|-----------------|-------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------|-------------------------------------|--------------------------------|--------------------------------|----------------------------------|
| GL**02C         | SNAP - ACTION CONTACTS<br>SINGLE POLE<br> | <br>0.9 DIFFERENTIAL TRAVEL                                                                                                                      | 16<br>3.6                          | 27<br>6.0                           | 0.1<br>3.9                     | 1.0<br>.04                     | 250                              |

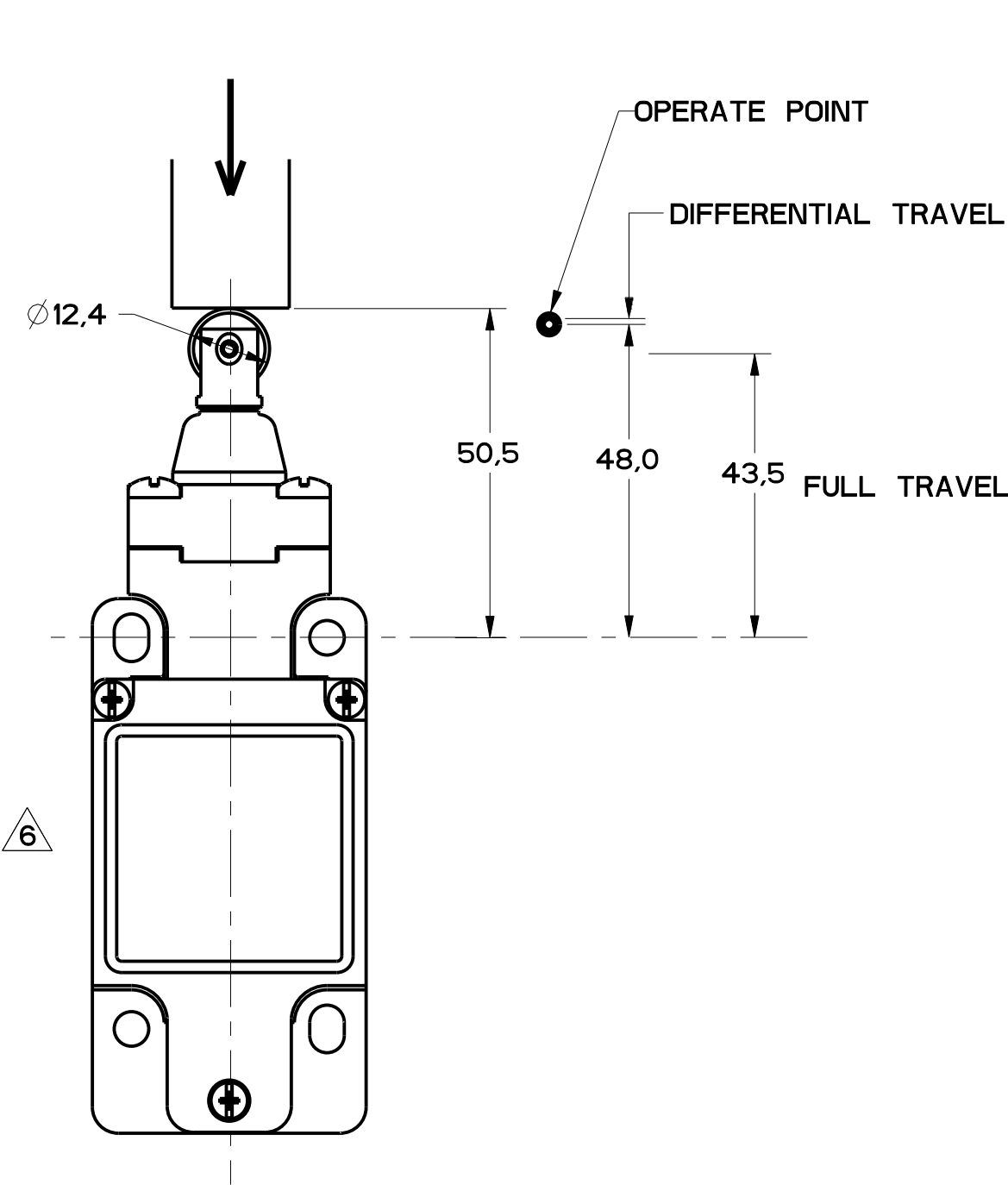


FIGURE 13A

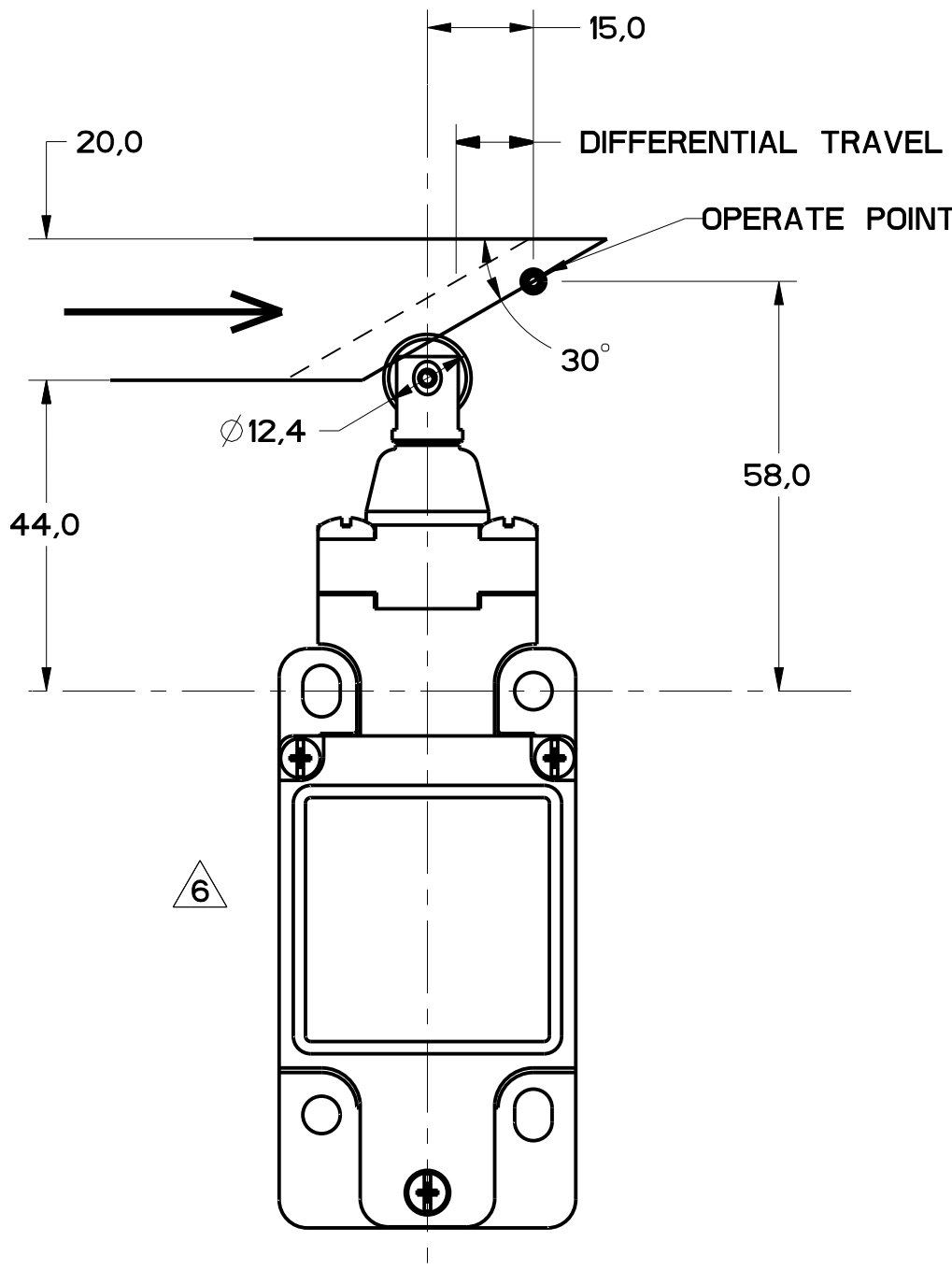


FIGURE 13B

FIGURE 13B, TOP ROLLER PLUNGER HEAD, CAM ACTUATION PER EN50041

| CATALOG LISTING | CONTACT BLOCK DIAGRAM                     | NOMINAL TRAVELS AND RELATED TERMINALS<br>CONTACT CLOSED, CONTACT OPEN, CONTACT CLOSED<br>DIFFERENTIAL TRAVEL, ** POSITIVE OPENING TO IEC 947-5-1 | MAXIMUM OPERATING FORCE<br>N<br>LB | MAXIMUM DISCONNECT FORCE<br>N<br>LB | MAX OPERATE VEL<br>M/S<br>in/s | MIN OPERATE VEL<br>M/S<br>in/s | MAX OPERATE FREQUENCY<br>OPS/MIN |
|-----------------|-------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------|-------------------------------------|--------------------------------|--------------------------------|----------------------------------|
| GL**02C         | SNAP - ACTION CONTACTS<br>SINGLE POLE<br> | <br>1.8 DIFFERENTIAL TRAVEL                                                                                                                      | 9.3<br>2.1                         | 15.6<br>3.5                         | 0.17<br>6.7                    | 1.7<br>.067                    | 250                              |

| THIRD ANGLE PROJECTION                                                                                  |           |              |      |
|---------------------------------------------------------------------------------------------------------|-----------|--------------|------|
|                                                                                                         |           |              |      |
| SCALE FULL                                                                                              |           |              |      |
| DO NOT SCALE PRINT                                                                                      |           |              |      |
| TOLERANCES<br>APPLY TO DESIGN UNITS. CONVERSIONS ARE ONLY FOR REFERENCE. UNLESS NOTED, TOLERANCES ARE 1 |           |              |      |
| NO PLACES                                                                                               | 1/16      | 1/32         | 1/64 |
| ONE PLACE                                                                                               | 1/16      | 1/32         | 1/64 |
| TWO PLACES                                                                                              | 1/16      | 1/32         | 1/64 |
| THREE PLACES                                                                                            | 1/16      | 1/32         | 1/64 |
| ANGLES                                                                                                  | 1/16      | 1/32         | 1/64 |
| DESIGN UNITS                                                                                            | SI METRIC | US CUSTOMARY |      |
| WEIGHT                                                                                                  |           |              |      |

|                                                                                                                                                                                     |  |                   |  |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|-------------------|--|
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| FED. MFG. CODE 91929                                                                                                                                                                |  | GL SERIES CHART 2 |  |
| MICRO SWITCH<br>a Honeywell Division                                                                                                                                                |  | SWITCH, ENCLOSED  |  |
|                                                                                                                                                                                     |  |                   |  |

| REVISIONS |         |          |
|-----------|---------|----------|
| A         | 1       | 180292   |
| B         | 1       | 01       |
| C         | 20      | SEP 94   |
| D         | CO      | 93789    |
| E         | REV     | 200788   |
| F         | 0000401 |          |
| G         | 011     | 2 JUN 93 |
| H         | 0002986 |          |
| I         | 20      | JAN 94   |
| J         | 0017532 |          |
| K         | 0000005 |          |

FIGURE 14A, TOP ROLLER LEVER HEAD WITH PIN ACTUATION

| CATALOG LISTING | CONTACT BLOCK DIAGRAM                     | NOMINAL TRAVELS AND RELATED TERMINALS<br>CONTACT CLOSED, CONTACT OPEN, CONTACT CLOSED<br>DIFFERENTIAL TRAVEL, ** POSITIVE OPENING TO IEC 947-5-1 | MAXIMUM OPERATING FORCE<br>N<br>LB | MAXIMUM DISCONNECT FORCE<br>N<br>LB | MAX OPERATE VEL<br>M/S<br>in/S | MIN OPERATE VEL<br>M/S<br>in/S | MAX OPERATE FREQUENCY<br>OPS/MIN |
|-----------------|-------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------|-------------------------------------|--------------------------------|--------------------------------|----------------------------------|
| GL**02D         | SNAP - ACTION CONTACTS<br>SINGLE POLE<br> | <br>65.2 61 56.9** 52<br>21-22 13-14<br>1.7 DIFFERENTIAL TRAVEL                                                                                  | 9.5<br>2.1                         | 12<br>2.7                           | 0.17<br>6.7                    | 1.7<br>.067                    | 250                              |

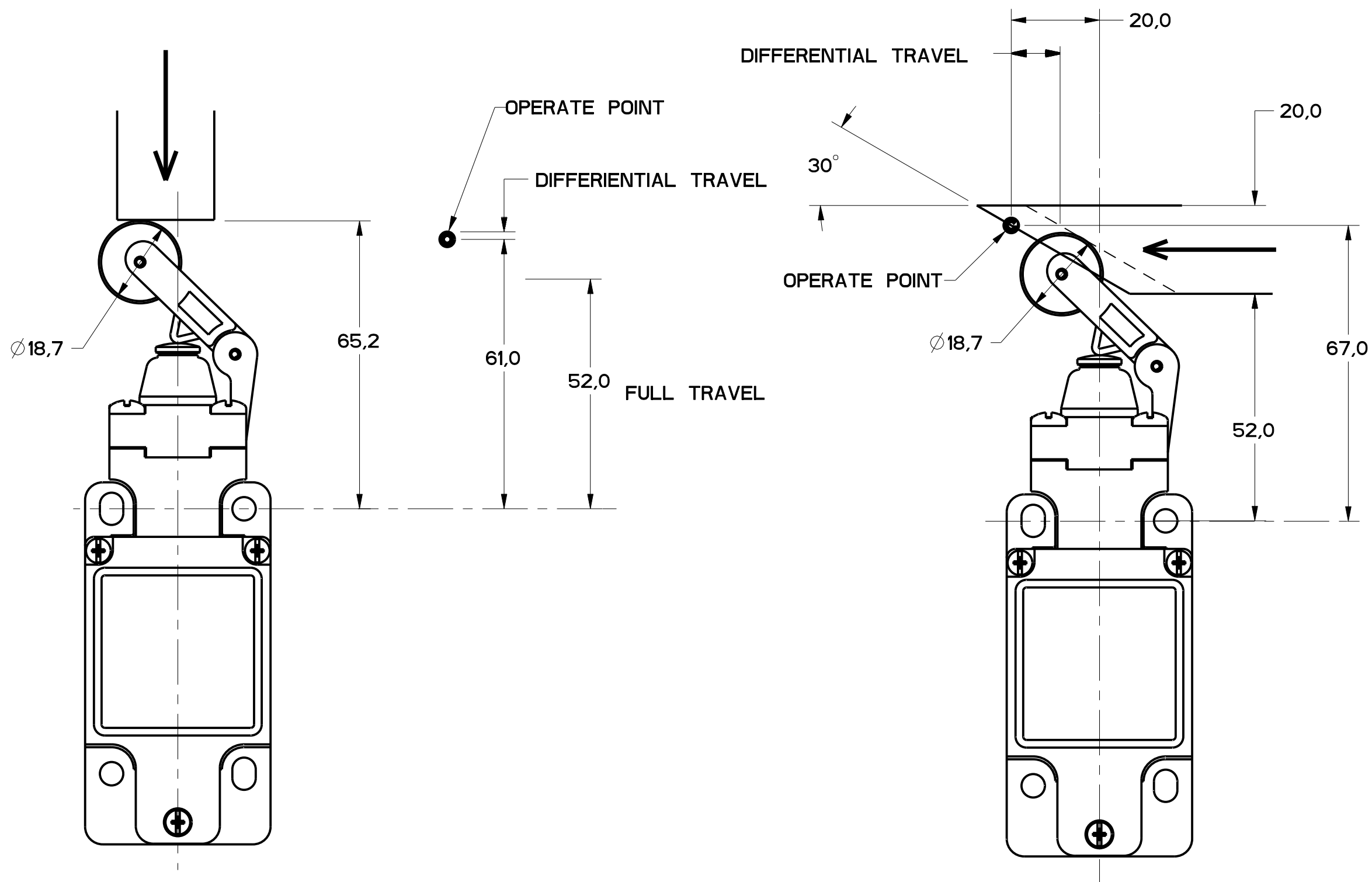


FIGURE 14A

FIGURE 14B

FIGURE 14B, TOP ROLLER LEVER HEAD WITH CAM ACTUATION

| CATALOG LISTING | CONTACT BLOCK DIAGRAM                     | NOMINAL TRAVELS AND RELATED TERMINALS<br>CONTACT CLOSED, CONTACT OPEN, CONTACT CLOSED<br>DIFFERENTIAL TRAVEL, ** POSITIVE OPENING TO IEC 947-5-1 | MAXIMUM OPERATING FORCE<br>N<br>LB | MAXIMUM DISCONNECT FORCE<br>N<br>LB | MAX OPERATE VEL<br>M/S<br>in/S | MIN OPERATE VEL<br>M/S<br>in/S | MAX OPERATE FREQUENCY<br>OPS/MIN |
|-----------------|-------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------|-------------------------------------|--------------------------------|--------------------------------|----------------------------------|
| GL**02D         | SNAP - ACTION CONTACTS<br>SINGLE POLE<br> | <br>0 20 29.1**<br>21-22 13-14<br>4.1 DIFFERENTIAL TRAVEL                                                                                        | 5.5<br>1.2                         | 7.0<br>1.6                          | 0.29<br>11.4                   | 2.9<br>.11                     | 250                              |

|                                                                                           |       |                                                                                       |       |
|-------------------------------------------------------------------------------------------|-------|---------------------------------------------------------------------------------------|-------|
| THIRD ANGLE PROJECTION                                                                    |       |                                                                                       |       |
|      |       |                                                                                       |       |
| SCALE FULL                                                                                |       |                                                                                       |       |
| DO NOT SCALE PRINT                                                                        |       |                                                                                       |       |
| TOLERANCES                                                                                |       |                                                                                       |       |
| APPLY TO DESIGN UNITS. CONVERSIONS ARE ONLY FOR REFERENCE. UNLESS NOTED, TOLERANCES ARE : |       |                                                                                       |       |
|                                                                                           | MM    | TOL                                                                                   | IN    |
| NO PLACES                                                                                 | X     | 1/104                                                                                 | 1/16  |
| ONE PLACE                                                                                 | X.X   | 0.01/0.05                                                                             | 1/32  |
| TWO PLACES                                                                                | X.XX  | 0.001/0.005                                                                           | 1/64  |
| THREE PLACES                                                                              | X.XXX | 0.0001/0.0005                                                                         | 1/128 |
| ANGLES                                                                                    | ± 2   |                                                                                       |       |
| SI METRIC                                                                                 |       | US CUSTOMARY                                                                          |       |
| DESIGN UNITS                                                                              |       |  |       |

|                                                                                                                                                                                     |  |                   |  |
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| FED. MFG. CODE 91929                                                                                                                                                                |  | GL SERIES CHART 2 |  |
| MICRO SWITCH<br>a Honeywell Division                                                                                                                                                |  | SWITCH, ENCLOSED  |  |

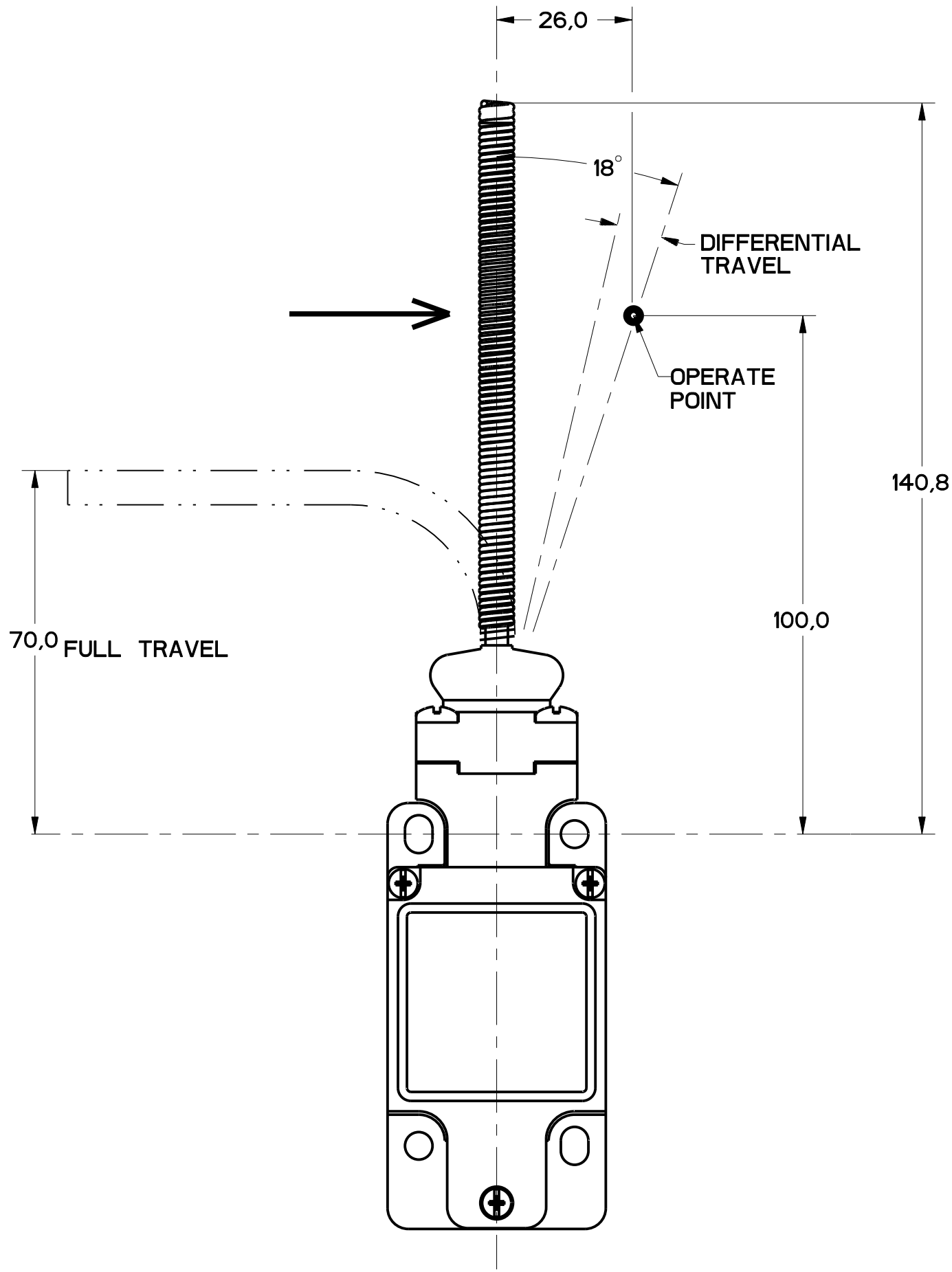


FIGURE 15

| FIGURE 15, CAT WISKER HEAD, ANGULAR ACTUATION |                                        |                                                                                            |                                   |                                    |                      |                               |
|-----------------------------------------------|----------------------------------------|--------------------------------------------------------------------------------------------|-----------------------------------|------------------------------------|----------------------|-------------------------------|
| CATALOG LISTING                               | CONTACT BLOCK DIAGRAM                  | NOMINAL TRAVELS AND RELATED TERMINALS<br>CONTACT CLOSED, CONTACT OPEN, DIFFERENTIAL TRAVEL | MAXIMUM OPERATING TORQUE<br>LB-IN | MAXIMUM DISCONNECT TORQUE<br>LB-IN | MAX OPERATE DEGREE/S | MIN OPERATE VELOCITY DEGREE/S |
| GL**02K                                       | SNAP - ACTION CONTACTS SINGLE POLE<br> | 21-22<br>13-14<br>18°<br>8° DIFFERENTIAL TRAVEL                                            | 0.1<br>.9                         | N/A                                | 360                  | 8                             |

| FIGURE 15, CAT WISKER HEAD, SIDE ACTUATION AT 100mm |                                        |                                                                                            |                               |                                |                         |                         |
|-----------------------------------------------------|----------------------------------------|--------------------------------------------------------------------------------------------|-------------------------------|--------------------------------|-------------------------|-------------------------|
| CATALOG LISTING                                     | CONTACT BLOCK DIAGRAM                  | NOMINAL TRAVELS AND RELATED TERMINALS<br>CONTACT CLOSED, CONTACT OPEN, DIFFERENTIAL TRAVEL | MAXIMUM OPERATING FORCE<br>LB | MAXIMUM DISCONNECT FORCE<br>LB | MAX OPERATE VEL<br>IN/S | MIN OPERATE VEL<br>IN/S |
| GL**02K                                             | SNAP - ACTION CONTACTS SINGLE POLE<br> | 21-22<br>13-14<br>26<br>12 DIFFERENTIAL TRAVEL                                             | 1.3<br>.3                     | N/A                            | .5<br>19.7              | 11<br>.43               |

| THIRD ANGLE PROJECTION                                                                   |                                     |                          |      |
|------------------------------------------------------------------------------------------|-------------------------------------|--------------------------|------|
|                                                                                          |                                     |                          |      |
| SCALE FULL                                                                               |                                     |                          |      |
| DO NOT SCALE PRINT                                                                       |                                     |                          |      |
| TOLERANCES                                                                               |                                     |                          |      |
| APPLY TO DESIGN UNITS. CONVERSIONS ARE ONLY FOR REFERENCE. UNLESS NOTED, TOLERANCES ARE: |                                     |                          |      |
| NO PLACES                                                                                | 1/16                                | 1/32                     | 1/64 |
| ONE PLACE                                                                                | 1/8                                 | 1/16                     | 1/32 |
| TWO PLACES                                                                               | 1/4                                 | 1/8                      | 1/16 |
| THREE PLACES                                                                             | 1/2                                 | 1/4                      | 1/8  |
| DESIGN UNITS                                                                             | SI METRIC                           | US CUSTOMARY             |      |
|                                                                                          | <input checked="" type="checkbox"/> | <input type="checkbox"/> |      |
| WEIGHT                                                                                   |                                     |                          |      |

|                                                                                                                                                                                     |  |                   |  |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--|-------------------|--|
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| FED. MFG. CODE 91929                                                                                                                                                                |  | GL SERIES CHART 2 |  |
| MICRO SWITCH<br>a Honeywell Division                                                                                                                                                |  | SWITCH, ENCLOSED  |  |
|                                                                                                                                                                                     |  |                   |  |

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- Работу по проектам и поставку образцов.
- Формирование склада под заказчика.
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- Техническую поддержку проекта.
- Защиту от снятия компонента с производства.
- Оценку стоимости проекта по компонентам.
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