

# Series 04

22.5mm 30.5mm IP65 10A 500VAC



Choose one component from each of the coloured sections to assemble a complete switch.

## Product Profile

The Series 04 is a high quality switch range that includes pushbuttons, indicators, selectors, mushroom headed switches, key switches, and Emergency-stops.

Options include self cleaning, slow-make and snap-action switching elements.

Technical data see pages 40-42  
Technical drawings see pages 43-47

- IP65 Protection
- Switch Rating:  
Maximum Voltage, 500VAC  
Maximum Thermal Current,  $I_{th} = 10A$   
230VAC/6A, 24VDC/10A
- Raised Mounting into 22.5mm cut out
- Flush Mounting into 30.5mm cut out
- Illumination using Ba9s Lamps or LED's
- All standard lenses are transparent with translucent diffuser
- Screw terminal or plug-in connections

## Indicator



Indicator, round, full face, 22.5mm mounting

| Colour | Part No.  |
|--------|-----------|
| Red    | 704.000.2 |
| Yellow | 704.000.4 |
| Green  | 704.000.5 |
| Blue   | 704.000.6 |
| Clear  | 704.000.7 |



Indicator, flush mount, aluminium bezel, 30.5mm mounting

| Colour | Part No.     |
|--------|--------------|
| Red    | 704.006.218* |
| Yellow | 704.006.418* |
| Green  | 704.006.518* |
| Blue   | 704.006.618* |
| Clear  | 704.006.718* |

\*Add suffix 'B' for non captive screw with flat washer and spring washer option

For complete switch also order

For complete switch also order

## Indicator



Indicator, flush mount, silver bezel, 30 x 30mm mounting

| Colour | Part No.    |
|--------|-------------|
| Red    | 704.202.208 |
| Yellow | 704.202.408 |
| Green  | 704.202.508 |
| Blue   | 704.202.608 |
| Clear  | 704.202.708 |

## Non Illuminated pushbutton



Non illuminated raised pushbutton, grey plastic bezel, 22.5mm mounting

| Colour | Part No., Momentary | Part No., Maintained |
|--------|---------------------|----------------------|
| Red    | 704.010.2           | 704.040.2            |
| Yellow | 704.010.4           | 704.040.4            |
| Green  | 704.010.5           | 704.040.5            |
| Blue   | 704.010.6           | 704.040.6            |
| Clear  | 704.010.7           | 704.040.7            |
| Black  | 704.010.0           | 704.040.0            |



Non illuminated raised pushbutton, aluminium bezel, 22.5mm mounting

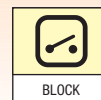
| Colour | Part No., Momentary | Part No., Maintained |
|--------|---------------------|----------------------|
| Red    | 704.012.2           | 704.042.2            |
| Yellow | 704.012.4           | 704.042.4            |
| Green  | 704.012.5           | 704.042.5            |
| Blue   | 704.012.6           | 704.042.6            |
| Clear  | 704.012.7           | 704.042.7            |
| Black  | 704.012.0           | 704.042.0            |

For complete switch also order

For complete switch also order A

For complete switch also order A

Choose one component from each of the coloured sections to assemble a complete switch.  
For other options or further information please contact your local sales office.



### Non Illuminated pushbutton



Non illuminated flush mount pushbutton,  
aluminium bezel, 30.5mm mounting

| Colour | Part No., Momentary | Part No., Maintained |
|--------|---------------------|----------------------|
| Red    | 704.012.218         | 704.042.218          |
| Yellow | 704.012.418         | 704.042.418          |
| Green  | 704.012.518         | 704.042.518          |
| Blue   | 704.012.618         | 704.042.618          |
| Clear  | 704.012.718         | 704.042.718          |
| Black  | 704.012.018         | 704.042.018          |

For complete switch also order **A**

### Illuminated pushbutton



Illuminated raised pushbutton,  
grey plastic bezel, 22.5mm mounting

| Colour | Part No., Momentary | Part No., Maintained |
|--------|---------------------|----------------------|
| Red    | 704.030.2           | 704.060.2            |
| Yellow | 704.030.4           | 704.060.4            |
| Green  | 704.030.5           | 704.060.5            |
| Blue   | 704.030.6           | 704.060.6            |
| Clear  | 704.030.7           | 704.060.7            |

For complete switch also order **A**

### Illuminated pushbutton



Illuminated raised pushbutton,  
aluminium bezel, 22.5mm mounting

| Colour | Part No., Momentary | Part No., Maintained |
|--------|---------------------|----------------------|
| Red    | 704.032.2           | 704.062.2            |
| Yellow | 704.032.4           | 704.062.4            |
| Green  | 704.032.5           | 704.062.5            |
| Blue   | 704.032.6           | 704.062.6            |
| Clear  | 704.032.7           | 704.062.7            |

For complete switch also order **A**



Illuminated flush mount pushbutton,  
aluminium bezel, 30.5mm mounting

| Colour | Part No., Momentary | Part No., Maintained |
|--------|---------------------|----------------------|
| Red    | 704.032.218*        | 704.062.218*         |
| Yellow | 704.032.418*        | 704.062.418*         |
| Green  | 704.032.518*        | 704.062.518*         |
| Blue   | 704.032.618*        | 704.062.618*         |
| Clear  | 704.032.718*        | 704.062.718*         |

\*Add suffix 'B' for non captive screw with  
flat washer and spring washer option

For complete switch also order **A**



Illuminated flush mount pushbutton,  
silver bezel, 30 x 30mm mounting

| Colour | Part No., Momentary | Part No., Maintained |
|--------|---------------------|----------------------|
| Red    | 704.230.208*        | 704.260.208*         |
| Yellow | 704.230.408*        | 704.260.408*         |
| Green  | 704.230.508*        | 704.260.508*         |
| Blue   | 704.230.608*        | 704.260.608*         |
| Clear  | 704.230.708*        | 704.260.708*         |

\*Add suffix 'B' for improved shock  
and vibration performance option

For complete switch also order **A**



INDICATOR



PUSHBUTTON



E-STOP



MUSHROOM



KEYLOCK



SELECTOR



BUZZER

Choose one component from each of the coloured sections to assemble a complete switch.



Emergency-stop switch



Emergency-stop, twist release, 37mm diameter, foolproof to EN 60947-5-1 and EN 418, use slow-make switching elements

| Part No.  |
|-----------|
| 704.064.2 |
|           |
|           |
|           |
|           |
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|           |
|           |
|           |
|           |

For complete switch also order  **A**



Emergency-stop, key release, 37mm diameter, foolproof to EN 60947-5-1 and EN 418, use slow-make switching elements



Emergency-stop, key release, 37mm diameter, foolproof to EN 60947-5-1 and EN 418, use slow-make switching elements

| Part No.  |
|-----------|
| 704.066.2 |
|           |
|           |
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|           |

For complete switch also order  **A**



Mushroom headed pushbutton



Mushroom headed pushbutton, plastic bezel and aluminium bezel, 22.5mm mounting, function momentary

| Colour                                                                                     | Part No., Plastic | Part No., Aluminium |
|--------------------------------------------------------------------------------------------|-------------------|---------------------|
|  Red    | 704.070.2         | 704.071.2           |
|  Yellow | 704.070.4         | 704.071.4           |
|  Green  | 704.070.5         | 704.071.5           |
|  Black  | 704.070.0         | 704.071.0           |
|                                                                                            |                   |                     |
|                                                                                            |                   |                     |
|                                                                                            |                   |                     |
|                                                                                            |                   |                     |
|                                                                                            |                   |                     |

For complete switch also order  **A**



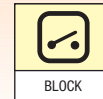
Complete switch



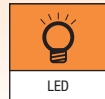
**Features**

- IP65 protection
- Renowned in the transportation sector for guaranteed reliability
- Modular switching system
- Intensive LED illumination
- Good snap action tactile feel
- Self cleaning contacts
- Stackable contact blocks
- Flush mount aluminium protective cover (to prevent accidental operation, damage)
- Spring return to close
- Worldwide approvals

Choose one component from each of the coloured sections to assemble a complete switch.  
For other options or further information please contact your local sales office.



BLOCK



LED

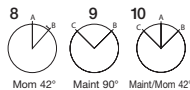


ACCESSORIES

### Key insert switch



Crew insert switch, stainless steel front ring, flush mount, 30.5mm mounting



| Drawing | Part No.      | Momentary/Maintained  |
|---------|---------------|-----------------------|
| 8       | 704.103.0.*28 | Momentary             |
| 9       | 704.101.0.*28 | Maintained            |
| 10      | 704.093.0.*18 | Maintained/Maintained |
| 10      | 704.095.0.*18 | Momentary/Momentary   |
| 10      | 704.097.0.*18 | Maintained/Momentary  |

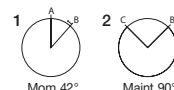
\*Customised key shape will be given a specified letter by EAO. When ordering please include dimensional drawing and sample key

For complete switch also order **A**

### Keylock switch



Keylock switch 2 position, raised, 22.5mm mounting

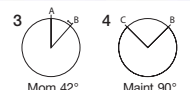


| Drawing | Part No.  | Momentary/Maintained | Key rem. |
|---------|-----------|----------------------|----------|
| 1       | 704.123.0 | Momentary            | A        |
| 2       | 704.121.0 | Maintained           | C        |
| 2       | 704.122.0 | Maintained           | C + B    |

For complete switch also order **A**



Keylock switch 2 position, flush mount, 30.5mm mounting



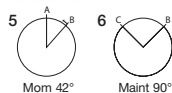
| Drawing | Part No.    | Momentary/Maintained | Key rem. |
|---------|-------------|----------------------|----------|
| 3       | 704.123.018 | Momentary            | A        |
| 4       | 704.121.018 | Maintained           | C        |
| 4       | 704.122.018 | Maintained           | C + B    |

For complete switch also order **A**

### Keylock switch



Keylock switch 2 position, flush mount, 30 x 30mm mounting

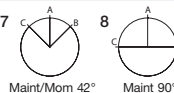


| Drawing | Part No.    | Momentary/Maintained | Key rem. |
|---------|-------------|----------------------|----------|
| 5       | 704.343.008 | Momentary            | A        |
| 6       | 704.341.008 | Maintained           | C        |
| 6       | 704.342.008 | Maintained           | C + B    |

For complete switch also order **A**



Keylock switch 3 position, raised, 22.5mm mounting

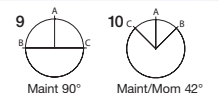


| Drawing | Part No.  | Momentary/Maintained | Key rem.  |
|---------|-----------|----------------------|-----------|
| 7       | 704.115.0 | Momentary            | A         |
| 7       | 704.114.0 | Maintained           | A         |
| 7       | 704.116.0 | Maintained           | C + B     |
| 8       | 704.113.0 | Maintained           | C + A + B |

For complete switch also order **A**



Keylock switch 3 position, flush mount, 30.5mm mounting



| Drawing | Part No.    | Momentary/Maintained | Key rem.  |
|---------|-------------|----------------------|-----------|
| 9       | 704.113.018 | Maintained           | C + A + B |
| 10      | 704.115.018 | Momentary            | A         |
| 10      | 704.114.018 | Maintained           | A         |
| 10      | 704.116.018 | Maintained           | C + B     |

For complete switch also order **A**

# Series 04

22.5mm 30.5mm IP65 10A 500VAC

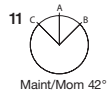


Choose one component from each of the coloured sections to assemble a complete switch.

## Keylock switch



Keylock switch  
3 position, flush mount,  
30 x 30mm mounting



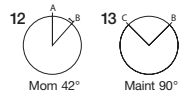
| Drawing | Part No.    | Momentary/Maintained | Key rem.  |
|---------|-------------|----------------------|-----------|
| 11      | 704.335.008 | Momentary            | A         |
| 11      | 704.334.008 | Maintained           | A         |
| 11      | 704.336.008 | Maintained           | C + B     |
| 11      | 704.333.008 | Maintained           | C + A + B |
|         |             |                      |           |
|         |             |                      |           |
|         |             |                      |           |
|         |             |                      |           |
|         |             |                      |           |
|         |             |                      |           |

For complete switch also order **A**

## Selector switch



Selector switch short  
lever 2 position, raised,  
22.5mm mounting

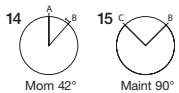


| Drawing | Part No.  | Momentary/Maintained | Bezel        |
|---------|-----------|----------------------|--------------|
| 12      | 704.412.0 | Momentary            | Grey plastic |
| 12      | 704.413.0 | Momentary            | Aluminium    |
| 13      | 704.410.0 | Maintained           | Grey plastic |
| 13      | 704.411.0 | Maintained           | Aluminium    |
|         |           |                      |              |
|         |           |                      |              |
|         |           |                      |              |
|         |           |                      |              |
|         |           |                      |              |
|         |           |                      |              |

For complete switch also order **A**



Selector switch short lever  
2 position, flush mount,  
30.5mm mounting



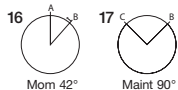
| Drawing | Part No.    | Momentary/Maintained | Bezel     |
|---------|-------------|----------------------|-----------|
| 14      | 704.413.018 | Momentary            | Aluminium |
| 15      | 704.411.018 | Maintained           | Aluminium |
|         |             |                      |           |
|         |             |                      |           |
|         |             |                      |           |
|         |             |                      |           |
|         |             |                      |           |
|         |             |                      |           |
|         |             |                      |           |
|         |             |                      |           |

For complete switch also order **A**

## Selector switch



Selector switch short lever  
2 position, flush mount,  
30 x 30mm mounting

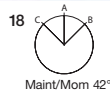


| Drawing | Part No.    | Momentary/Maintained | Bezel         |
|---------|-------------|----------------------|---------------|
| 16      | 704.512.008 | Momentary            | Black plastic |
| 17      | 704.510.008 | Maintained           | Black plastic |
|         |             |                      |               |
|         |             |                      |               |
|         |             |                      |               |
|         |             |                      |               |
|         |             |                      |               |
|         |             |                      |               |
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|         |             |                      |               |

For complete switch also order **A**



Selector switch short lever  
3 position, raised,  
22.5mm mounting

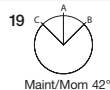


| Drawing | Part No.  | Momentary/Maintained | Bezel        |
|---------|-----------|----------------------|--------------|
| 18      | 704.404.0 | Momentary            | Grey plastic |
| 18      | 704.405.0 | Momentary            | Aluminium    |
| 18      | 704.402.0 | Maintained           | Grey plastic |
| 18      | 704.403.0 | Maintained           | Aluminium    |
|         |           |                      |              |
|         |           |                      |              |
|         |           |                      |              |
|         |           |                      |              |
|         |           |                      |              |
|         |           |                      |              |

For complete switch also order **A**



Selector switch short lever  
3 position, flush mount,  
30.5mm mounting



| Drawing | Part No.    | Momentary/Maintained | Bezel     |
|---------|-------------|----------------------|-----------|
| 19      | 704.405.018 | Momentary            | Aluminium |
| 19      | 704.403.018 | Maintained           | Aluminium |
|         |             |                      |           |
|         |             |                      |           |
|         |             |                      |           |
|         |             |                      |           |
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|         |             |                      |           |
|         |             |                      |           |
|         |             |                      |           |

For complete switch also order **A**

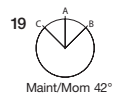
Choose one component from each of the coloured sections to assemble a complete switch.  
For other options or further information please contact your local sales office.



### Selector switch



Selector switch short lever  
3 position, flush mount,  
30 x 30mm mounting

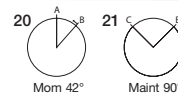


| Drawing | Part No.    | Momentary/Maintained | Bezel         |
|---------|-------------|----------------------|---------------|
| 19      | 704.504.008 | Momentary            | Black plastic |
| 19      | 704.502.008 | Maintained           | Black plastic |

For complete switch also order **A**



Selector switch long  
lever 2 position, raised,  
22.5mm mounting

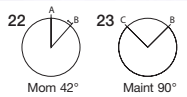


| Drawing | Part No.  | Momentary/Maintained | Bezel        |
|---------|-----------|----------------------|--------------|
| 20      | 704.102.0 | Momentary            | Grey plastic |
| 20      | 704.103.0 | Momentary            | Aluminium    |
| 21      | 704.100.0 | Maintained           | Grey plastic |
| 21      | 704.101.0 | Maintained           | Aluminium    |

For complete switch also order **A**



Selector switch long lever  
2 position, flush mount,  
30.5mm mounting



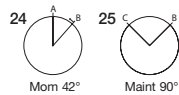
| Drawing | Part No.    | Momentary/Maintained | Bezel     |
|---------|-------------|----------------------|-----------|
| 22      | 704.103.018 | Momentary            | Aluminium |
| 23      | 704.101.018 | Maintained           | Aluminium |

For complete switch also order **A**

### Selector switch



Selector switch long lever  
2 position, flush mount,  
30 x 30mm mounting

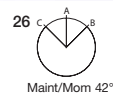


| Drawing | Part No.    | Momentary/Maintained | Bezel         |
|---------|-------------|----------------------|---------------|
| 24      | 704.302.008 | Momentary            | Black plastic |
| 25      | 704.300.008 | Maintained           | Black plastic |

For complete switch also order **A**



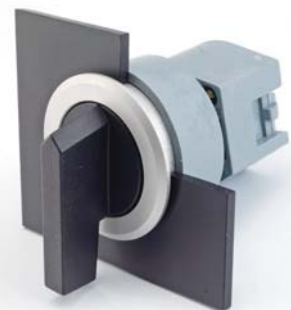
Selector switch long  
lever 3 position, raised,  
22.5mm mounting



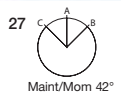
| Drawing | Part No.  | Momentary/Maintained | Bezel        |
|---------|-----------|----------------------|--------------|
| 26      | 704.094.0 | Momentary            | Grey plastic |
| 26      | 704.095.0 | Momentary            | Aluminium    |
| 26      | 704.092.0 | Maintained           | Grey plastic |
| 26      | 704.093.0 | Maintained           | Aluminium    |

For complete switch also order **A**

### Selector switch



Selector switch long  
lever 3 position, flush mount,  
30.5mm mounting

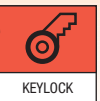
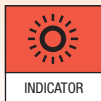


| Drawing | Part No.    | Momentary/Maintained | Bezel     |
|---------|-------------|----------------------|-----------|
| 27      | 704.095.018 | Momentary            | Aluminium |
| 27      | 704.093.018 | Maintained           | Aluminium |

For complete switch also order **A**

## Series 04

**22.5mm 30.5mm IP65 10A 500VAC**

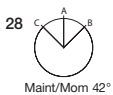


**Choose one component from each of the coloured sections to assemble a complete switch.**

 **Selector switch**



Selector switch long lever  
3 position, flush mount,  
30 x 30mm mounting



Selector switch, short lever multi position,  
flush mount, 30.5mm mounting



Selector switch, long lever multi position,  
flush mount, 30.5mm mounting

| Drawing | Part No.    | Momentary/Maintained | Bezel         |
|---------|-------------|----------------------|---------------|
| 28      | 704.294.008 | Momentary            | Black plastic |
| 28      | 704.292.008 | Maintained           | Black plastic |

| Part No.      | Bezel     |
|---------------|-----------|
| 704.411.118KN | Aluminium |

| Part No.      | Bezel     |
|---------------|-----------|
| 704.101.118KN | Aluminium |

For complete switch also order  **A**

For complete switch also order  **A**

For complete switch also order  **A**

 **Selector switch**



Selector switch, short lever multi position,  
flush mount, 30 x 30mm mounting

[illegible]

For complete switch also order  **A**



Selector switch, long lever multi position,  
flush mount, 30 x 30mm mounting

[illegible]

For complete switch also order  **A**

For other options or further information please contact your local sales office.

### Product Profile

A range of lever switches to compliment the EAO Series 04 and are available with a choice of lever styles and switching action.

Options include momentary and maintained positions with 4 connection method types.

- IP54 Protection
- Switch Rating, 10A, 250VAC
- Flush Mounting into 33.5mm dia. cut out
- Up to 5 switching Positions
- Different handle shapes available
- LED Illumination Option
- Mechanical Life of minimum 5 Million Operations
- Connection types:  
Screw Terminal, Plug-in, JST Connector, Fast-on 6.3mm, cage clamp®

### Lever switch



Lever switch, 2-5 positions, cage clamp®, aluminium bezel, silver contacts, 33.5mm mounting

| Colour  | Range | Momentary/ Maintained | Contact type            | Voltage             |
|---------|-------|-----------------------|-------------------------|---------------------|
| ● Black | S 41* | Momentary/ Maintained | max. 5 contacts (NC/NO) | max.250VAC/DC, 1.5A |
|         |       |                       |                         |                     |
|         |       |                       |                         |                     |
|         |       |                       |                         |                     |

\*Part number will be supplied by EAO once schematic diagram has been defined including specification of lever style and switching action. For further information please contact your local sales office.



Lever switch, 2-5 positions, JST pin header, aluminium bezel, silver contacts, 33.5mm mounting

| Colour  | Range | Momentary/ Maintained | Contact type            | Voltage             |
|---------|-------|-----------------------|-------------------------|---------------------|
| ● Black | S 42* | Momentary/ Maintained | max. 5 contacts (NC/NO) | max.250VAC/DC, 1.5A |
|         |       |                       |                         |                     |
|         |       |                       |                         |                     |
|         |       |                       |                         |                     |

\*Part number will be supplied by EAO once schematic diagram has been defined including specification of lever style and switching action. For further information please contact your local sales office.

### Lever switch



Lever switch, 2-5 positions, plug-in terminal, aluminium bezel, silver contacts, 33.5mm mounting

| Colour  | Range | Momentary/ Maintained | Contact type            | Voltage             |
|---------|-------|-----------------------|-------------------------|---------------------|
| ● Black | S 43* | Momentary/ Maintained | max. 5 contacts (NC/NO) | max.250VAC/DC, 1.5A |
|         |       |                       |                         |                     |
|         |       |                       |                         |                     |
|         |       |                       |                         |                     |

\*Part number will be supplied by EAO once schematic diagram has been defined including specification of lever style and switching action. For further information please contact your local sales office.



Lever switch, 2-5 positions, cage clamp®, aluminium bezel, silver contacts with positive opening, 33.5mm mounting

| Colour  | Range | Momentary/ Maintained | Contact type            | Voltage            |
|---------|-------|-----------------------|-------------------------|--------------------|
| ● Black | S 44* | Momentary/ Maintained | max. 4 contacts (NC/NO) | max.250VAC/DC, 10A |
|         |       |                       |                         |                    |
|         |       |                       |                         |                    |
|         |       |                       |                         |                    |

\*Part number will be supplied by EAO once schematic diagram has been defined including specification of lever style and switching action. For further information please contact your local sales office.



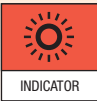
Lever switch, 2-5 positions, plug-in or screw terminals, aluminium bezel, silver contacts with positive opening, 33.5mm mounting

| Colour  | Range | Momentary/ Maintained | Contact type            | Voltage            |
|---------|-------|-----------------------|-------------------------|--------------------|
| ● Black | S 45* | Momentary/ Maintained | max. 4 contacts (NC/NO) | max.250VAC/DC, 10A |
|         |       |                       |                         |                    |
|         |       |                       |                         |                    |
|         |       |                       |                         |                    |

\*Part number will be supplied by EAO once schematic diagram has been defined including specification of lever style and switching action. For further information please contact your local sales office.

Series 04

22.5mm 30.5mm IP65 10A 500VAC



Choose one component from each of the coloured sections to assemble a complete switch.

Buzzer



Buzzer, plastic bezel, raised, 22.5mm mounting, 24VDC, 95dB ± 8 at a distance of 0.1m

| Part No.   | Front finish    |
|------------|-----------------|
| 14-810.002 | Black plastic   |
| 14-810.902 | Chromium-plated |
|            |                 |
|            |                 |
|            |                 |
|            |                 |
|            |                 |
|            |                 |
|            |                 |



Buzzer, plastic bezel, flush mount, 30.5mm mounting, 24VDC, IP40, 95dB ± 8 at a distance of 0.1m

| Part No.   | Front finish    |
|------------|-----------------|
| 14-810.910 | Black plastic   |
| 14-810.918 | Chromium-plated |
|            |                 |
|            |                 |
|            |                 |
|            |                 |
|            |                 |
|            |                 |
|            |                 |

Contact block



Contact block, screw terminal, snap-action with self-cleaning silver contacts

| Part No.                                                                        | Contact type |
|---------------------------------------------------------------------------------|--------------|
| 704.900.1*                                                                      | 1NO          |
| 704.900.2*                                                                      | 1NC          |
| 704.900.3*                                                                      | 2NO          |
| 704.900.4*                                                                      | 2NC          |
| 704.900.5*                                                                      | 1NO/1NC      |
|                                                                                 |              |
| Other contact materials available. Please contact us.                           |              |
| *Add suffix 'B' for non captive screw with flat washer and spring washer option |              |

For complete switch also order

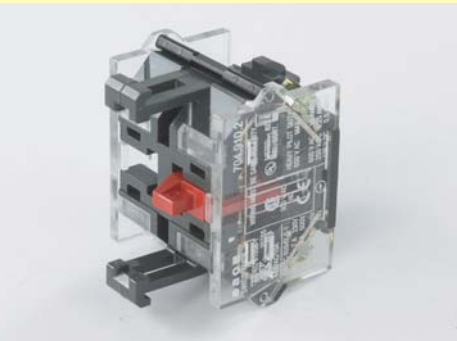
Contact block



Contact block, plug-in terminal, 6.3mm, snap-action with self-cleaning silver contacts

| Part No.                                              | Contact type |
|-------------------------------------------------------|--------------|
| 704.905.1*                                            | 1NO          |
| 704.905.2*                                            | 1NC          |
| 704.905.3*                                            | 2NO          |
| 704.905.4*                                            | 2NC          |
| 704.905.5*                                            | 1NO/1NC      |
|                                                       |              |
| Other contact materials available. Please contact us. |              |
| *Add suffix '/D' for double plug-in terminal          |              |

For complete switch also order



Contact block, screw terminal, slow-make with forced opening silver contacts

| Part No.                                                                         | Contact type |
|----------------------------------------------------------------------------------|--------------|
| 704.910.2*                                                                       | 1NC          |
| 704.910.4*                                                                       | 2NC          |
| 704.910.5*                                                                       | 1NO/1NC      |
|                                                                                  |              |
| Other contact materials available. Please contact us.                            |              |
| *Add suffix '/B' for non captive screw with flat washer and spring washer option |              |

For complete switch also order

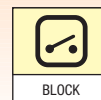


Contact block, plug-in terminal, 6.3mm, slow-make with forced opening silver contacts

| Part No.                                              | Contact type |
|-------------------------------------------------------|--------------|
| 704.915.2*                                            | 1NC          |
| 704.915.4*                                            | 2NC          |
| 704.915.5*                                            | 1NO/1NC      |
|                                                       |              |
| Other contact materials available. Please contact us. |              |
| *Add suffix '/D' for double plug-in terminal          |              |

For complete switch also order

Choose one component from each of the coloured sections to assemble a complete switch.  
For other options or further information please contact your local sales office.



### Contact block



Kraus & Naimer contact block, multi position, screw terminal from 2 - 12 positions

### LED



LED, Ba9s, single chip, 6 Volt and 12 Volt



LED, Ba9s, single chip, 24 Volt and 28 Volt

|                                                                                                                                                                          | Colour | Part No.     | Voltage        | Colour | Part No.     | Voltage        |
|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------|--------------|----------------|--------|--------------|----------------|
|                                                                                                                                                                          | Red    | 10-2506.1082 | 6VDC, 17mA     | Red    | 10-2512.1142 | 24VAC/DC, 15mA |
|                                                                                                                                                                          | Yellow | 10-2506.1084 | 6VDC, 17mA     | Yellow | 10-2512.1144 | 24VAC/DC, 15mA |
|                                                                                                                                                                          | Green  | 10-2506.1085 | 6VDC, 17mA     | Green  | 10-2512.1145 | 24VAC/DC, 7mA  |
|                                                                                                                                                                          | Blue   | 10-2506.1086 | 6VDC, 7mA      | Blue   | 10-2512.1146 | 24VAC/DC, 15mA |
|                                                                                                                                                                          | White  | 10-2506.1089 | 6VDC, 17mA     | White  | 10-2512.1149 | 24VAC/DC, 15mA |
|                                                                                                                                                                          | Red    | 10-2509.1142 | 12VAC/DC, 16mA | Red    | 10-2513.1142 | 28VAC/DC, 13mA |
|                                                                                                                                                                          | Yellow | 10-2509.1144 | 12VAC/DC, 16mA | Yellow | 10-2513.1144 | 28VAC/DC, 13mA |
|                                                                                                                                                                          | Green  | 10-2509.1145 | 12VAC/DC, 7mA  | Green  | 10-2513.1145 | 28VAC/DC, 7mA  |
|                                                                                                                                                                          | Blue   | 10-2509.1146 | 12VAC/DC, 16mA | Blue   | 10-2513.1146 | 28VAC/DC, 13mA |
|                                                                                                                                                                          | White  | 10-2509.1149 | 12VAC/DC, 16mA | White  | 10-2513.1149 | 28VAC/DC, 13mA |
| Customised switching element part number to be supplied by EAO, once schematic diagram has been defined. For further information please contact your local sales office. |        |              |                |        |              |                |

For complete switch also order

### LED



LED, Ba9s, single chip, 48 Volt



LED, Ba9s, single chip, 110 Volt with surge and transient protection

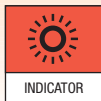


LED, Ba9s, single chip, 130 Volt and 230 Volt

| Colour | Part No.     | Voltage       | Colour | Part No.     | Voltage       | Colour | Part No.     | Voltage      |
|--------|--------------|---------------|--------|--------------|---------------|--------|--------------|--------------|
| Red    | 10-2519.1052 | 48VAC/DC, 8mA | Red    | 10-2422.3052 | 110VDC, 5.5mA | Red    | 10-2H24.2052 | 130VAC / 5mA |
| Yellow | 10-2519.1054 | 48VAC/DC, 8mA | Yellow | 10-2422.3054 | 110VDC, 5.5mA | Yellow | 10-2H24.2054 | 130VAC / 5mA |
| Green  | 10-2519.1055 | 48VAC/DC, 4mA | Green  | 10-2422.3055 | 110VDC, 5.5mA | Green  | 10-2H24.2055 | 130VAC / 3mA |
| Blue   | 10-2519.1056 | 48VAC/DC, 8mA | Blue   | 10-2422.3056 | 110VDC, 5.5mA | Blue   | 10-2H24.2056 | 130VAC / 5mA |
| White  | 10-2519.1059 | 48VAC/DC, 8mA | White  | 10-2422.3059 | 110VDC, 5.5mA | White  | 10-2H24.2059 | 130VAC / 5mA |
|        |              |               |        |              |               | Red    | 10-2H25.2042 | 230VAC / 3mA |
|        |              |               |        |              |               | Yellow | 10-2H25.2044 | 230VAC / 3mA |
|        |              |               |        |              |               | Green  | 10-2H25.2045 | 230VAC / 2mA |
|        |              |               |        |              |               | Blue   | 10-2H25.2046 | 230VAC / 3mA |
|        |              |               |        |              |               | White  | 10-2H25.2049 | 230VAC / 3mA |

## Series 04

**22.5mm 30.5mm IP65 10A 500VAC**



**Choose one component from each of the coloured sections to assemble a complete switch.**

## A Accessories



Lamp / LED block, screw terminal



Lamp / LED block, plug-in terminal, 6.3mm



Lens cap, round, transparent, plastic for raised and flush indicators with bezel and pushbutton actuators

| Part No.                                                                        | Part No.                                    | Colour                                                                                   | Part No.                              |
|---------------------------------------------------------------------------------|---------------------------------------------|------------------------------------------------------------------------------------------|---------------------------------------|
| 704.950.0*                                                                      | 704.950.1*                                  |  Red    | 704.602.2                             |
|                                                                                 |                                             |  Yellow | 704.602.4                             |
|                                                                                 |                                             |  Green  | 704.602.5                             |
|                                                                                 |                                             |  Blue   | 704.602.6                             |
|                                                                                 |                                             |  Clear  | 704.602.7                             |
|                                                                                 |                                             |                                                                                          |                                       |
|                                                                                 |                                             |                                                                                          |                                       |
|                                                                                 |                                             |                                                                                          |                                       |
| *Add suffix 'B' for non captive screw with flat washer and spring washer option |                                             |                                                                                          | For complete lens also order diffuser |
|                                                                                 | *Add suffix 'D' for double plug-in terminal |                                                                                          | 704.609.9 (see page 38)               |

## A Accessories



Lens cap raised, round, transparent, plastic for raised and flush mount pushbutton actuators



Lens cap, round, aluminium anodised for raised and flush mount pushbutton actuators



Protective cover, raised pushbutton

|                                                                                           | Part No.                              |                                                                                           | Part No.   | Comment                 |  | Part No.  |
|-------------------------------------------------------------------------------------------|---------------------------------------|-------------------------------------------------------------------------------------------|------------|-------------------------|--|-----------|
|  Red    | 704.611.2                             |  Red    | 704.601.2  |                         |  | 704.925.0 |
|  Yellow | 704.611.4                             |  Yellow | 704.601.4  |                         |  |           |
|  Green  | 704.611.5                             |  Blue   | 704.601.6  |                         |  |           |
|  Blue   | 704.611.6                             |  Silver | 704.601.8  |                         |  |           |
|  Clear  | 704.611.7                             |  Silver | 704.601.81 | Window for illumination |  |           |
|                                                                                           |                                       |  Black  | 704.601.0  |                         |  |           |
|                                                                                           |                                       |  Black  | 704.601.01 | Window for illumination |  |           |
|                                                                                           |                                       |                                                                                           |            |                         |  |           |
|                                                                                           | For complete lens also order diffuser |                                                                                           |            |                         |  |           |
|                                                                                           | 704.610.9 (see page 38)               |                                                                                           |            |                         |  |           |

Choose one component from each of the coloured sections to assemble a complete switch.  
For other options or further information please contact your local sales office.



## A Accessories



Aluminium protective cover for flush mount pushbutton with fitted spring, closed

| Colour    | Part No.   |
|-----------|------------|
| ● Red     | 704.928.12 |
| ● Yellow  | 704.928.14 |
| ● Blue    | 704.928.16 |
| ○ Natural | 704.928.18 |
|           |            |
|           |            |
|           |            |
|           |            |
|           |            |
|           |            |
|           |            |



Aluminium protective cover for flush mount selector switch short lever with fitted spring, closed

| Colour    | Part No.   |
|-----------|------------|
| ○ Natural | 704.928.28 |
|           |            |
|           |            |
|           |            |
|           |            |
|           |            |
|           |            |
|           |            |
|           |            |
|           |            |



Aluminium protective cover for flush mount selector switch, lockable

| Part No.             |
|----------------------|
| ○ Natural 704.928.38 |
|                      |
|                      |
|                      |
|                      |
|                      |
|                      |
|                      |
|                      |
|                      |

## A Accessories



Protective front ring with silicon membrane for raised or flush mount pushbutton

| Part No.  | Size                              |
|-----------|-----------------------------------|
| 704.600.3 | 29mm Ø for raised pushbutton      |
| 704.955.3 | 35mm Ø for flush mount pushbutton |
|           |                                   |
|           |                                   |
|           |                                   |
|           |                                   |
|           |                                   |
|           |                                   |
|           |                                   |
|           |                                   |



Emergency-stop protective shroud, yellow painted aluminium with 22.5mm mounting hole

| Part No.  |
|-----------|
| 704.927.4 |
|           |
|           |
|           |
|           |
|           |
|           |
|           |
|           |



Emergency-stop switch label, 60mm diameter, English, German, French and Dutch

| Part No.  | Markings        |
|-----------|-----------------|
| 704.963.6 | Emergency stop  |
| 704.963.5 | Not Aus         |
| 704.963.7 | Arret D'urgence |
| 007.963.6 | Noodstop        |
|           |                 |
|           |                 |
|           |                 |
|           |                 |
|           |                 |
|           |                 |



INDICATOR



PUSHBUTTON



E-STOP



MUSHROOM



KEYLOCK



SELECTOR



BUZZER

Choose one component from each of the coloured sections to assemble a complete switch.

A Accessories



Emergency-stop switch enclosure with 22.5mm mounting hole, 83mm (w) x 83mm (h) x 59mm (d)

|   | Part No.  |
|---|-----------|
| 1 | 704.945.0 |
| 2 | 704.945.6 |
|   |           |
|   |           |
|   |           |
|   |           |
|   |           |
|   |           |
|   |           |
|   |           |



Blanking plate

|  | Part No.  | Mounting hole |
|--|-----------|---------------|
|  | 704.960.7 | 22.5mm Ø      |
|  | 704.964.8 | 30.5mm Ø      |
|  | 704.964.9 | 30 x 30mm     |
|  |           |               |
|  |           |               |
|  |           |               |
|  |           |               |
|  |           |               |
|  |           |               |



Lens remover for round pushbuttons and indicators. LED and lamp remover for round and square pushbuttons and indicators

A Accessories

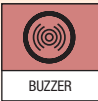


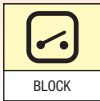
Lens remover for square pushbuttons and indicators

|  | 98-968 |
|--|--------|
|  |        |
|  |        |
|  |        |
|  |        |
|  |        |
|  |        |
|  |        |
|  |        |



Choose one component from each of the coloured sections to assemble a complete switch.  
For other options or further information please contact your local sales office.

BUZZER

BLOCK

LED

A  
ACCESSORIES

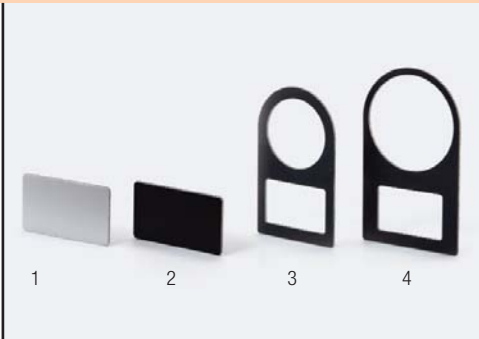
**A Accessories**



Mounting flange



Diffuser for raised indicator, diffuser for flat lens indicator and pushbutton, diffuser for raised pushbutton



Legend plate, adhesive, natural anodised aluminium finish for raised and flush mount pushbuttons

| Part No.  | Material | Image | Part No.  | Product description            | Image | Part No.  | Mounting hole | Legend plate |
|-----------|----------|-------|-----------|--------------------------------|-------|-----------|---------------|--------------|
| 704.960.5 | Metal    | 1     | 704.608.9 | Diffuser for raised indicator  | 1     | 704.968.0 | 23.5 x 14.5mm | Aluminium    |
| 704.950.5 | Plastic  | 2     | 704.609.9 | Diffuser for flat lens         | 2     | 704.968.1 | 23.5 x 14.5mm | Black        |
|           |          | 3     | 704.610.9 | Diffuser for raised pushbutton | 3     | 704.968.2 | 22.5mm Ø      | Black        |
|           |          |       |           |                                | 4     | 704.968.3 | 30.5mm Ø      | Black        |
|           |          |       |           |                                |       | 704.968.4 | 35 x 18mm     | Aluminium    |
|           |          |       |           |                                |       | 704.968.5 | 35 x 18mm     | Black        |
|           |          |       |           |                                |       |           |               |              |
|           |          |       |           |                                |       |           |               |              |
|           |          |       |           |                                |       |           |               |              |
|           |          |       |           |                                |       |           |               |              |
|           |          |       |           |                                |       |           |               |              |
|           |          |       |           |                                |       |           |               |              |
|           |          |       |           |                                |       |           |               |              |



## Snap-action switching element

### Switching system

The double-break, snap-action switching element is equipped with one or two independent contact systems, acting as normally open or normally closed contact. The snap-action switching element is fitted with self-cleaning contacts. Up to 3 switching elements can be snapped to each actuator.

### Material

#### Material of contacts

hardsilver, gold/silver, silver/palladium (for aggressive atmospheres)

#### Switching element

polycarbonate PC

### Mechanical characteristics

#### Connection method

screw terminals

plug-in terminals 6.3 x 0.8 mm:

max. wire cross-section: 2 x 2.5 mm

max. wire cross-section of stranded cable: 2 x 1.5 mm

For switches with plug-in terminals it is necessary to provide insulation sockets and to maintain a spacing of 65 mm between rows (mounting dimensions).

#### Starting torque

screws at the mounting flange: max. 25 Ncm

screws at switching element: max. 50 Ncm

#### Actuating force

11-20 N ± 1 N

depending on the number of switching elements, 1 to 3 elements

#### Storage temperature

-40°C to + 85°C

#### Mechanical life

- pushbuttons:
  - maintained action 1.5 million cycles of operation
  - momentary action 3 million cycles of operation
- selector switch:
  - maintained action 1.25 million cycles of operation
  - momentary action 2.5 million cycles of operation
- e-stop switch:
  - >= 50'000 cycles of operation
- keylock switch:
  - maintained action 25'000 cycles of operation
  - momentary action 50'000 cycles of operation

#### Rebound time

<= 3 ms

#### Travel

5.8 ± 0.2 mm

#### Resistance to shock

(single impacts, semi-sinusoidal)

30 g for 11 ms as per EN 60 947-5-1

#### Resistance to vibration

(sinusoidal)

10 g at 10-2000 Hz, amplitude 0,75 mm as per EN 60 947-5-1

#### Ambient air temperature

min. - 25°C (- 40° with restriction)

max. without illumination: + 80°C

max. with neon lamp + 80°C

max. with LED: + 80°C

max. with incandescent lamp: + 40°C

(as per DIN IEC 68-)

### Electrical characteristics

#### Rated insulation voltage

500 VAC/600 VDC as per VDE 0100, group C

#### Standards

The switches comply with the "Standards for low-voltage switching devices" EN 60 947-5-1

#### Contact resistance

starting value <= 50 mΩ as per IEC 512-2-4

#### Insulation resistance

>= 10 mΩ between open contacts at 500 VDC, as per IEC 512-2-10

#### Continuous thermal current Ith<sub>2</sub>

10 A

The maximum current in continuous operation and at ambient temperature must not exceed the quoted maximum values.

#### Switch rating max.

at switch rating AC for gold-, silver- and hard silver contacts service category AC-15 as per EN60947-5-1 (cos φ = 0.7)

voltage: 230 VAC 400 VAC 500 VAC

current: 6 A 4 A 2.5 A

at switch rating DC for gold-, silver- and hard silver contacts service category DC as per EN60947-5-1

L/R=100 ms at P>=50 W and

L/R=2 x P ms<50 W

WOP stands for switch rating in watt

voltage: 24 VDC 60 VDC 110 VDC

current: 10 A 3 A 1 A

#### Switch rating min.

gold/silver contacts:

voltage: 5 VDC 24 VDC 110 VDC

current: 15 mA 5 mA 2 mA

hard silver contacts:

voltage: 24 VDC 110 VDC

current: 50 mA 10 mA

#### Electric strength

5000 VAC, 50 Hz, 1 min. between all terminals and earth.

### Approvals

- SEV 500 VAC/10 A
- CSA 300 VAC
- UL 600 VAC HD
- German Navy
- German Lloyd
- CE (declaration of conformity)
- CB

### Slow-make switching element

### Switching system

The double-break, slow-make switching element is equipped with one or two independent contact systems, acting as normally open or normally closed contact. Slow-make contacts with forced action are ideal for high switch ratings. Up to 3 switching elements can be snapped to each actuator.

### Material

#### Material of contacts

hardsilver, gold/silver, silver/palladium (for aggressive atmospheres)

#### Switching element

polycarbonate PC

## Mechanical characteristics

### Connection method

screw terminals  
 plug-in terminals 6.3 x 0.8 mm:  
 max. wire cross-section: 2 x 2.5 mm  
 max. wire cross-section of stranded cable: 2 x 1.5 mm  
 For switches with plug-in terminals it is necessary to provide insulation sockets and to maintain a spacing of 65 mm between rows (mounting dimensions).

### Starting torque

screws at the mounting flange: max. 25 Ncm  
 screws at switching element: max. 50 Ncm

### Actuating force

13-36 N ± 1 N  
 depending on the number of switching elements, 1 to 3 elements

### Storage temperature

-40°C to + 85°C

### Mechanical life

pushbuttons: - maintained action 1.5 million cycles of operation  
 - momentary action 3 million cycles of operation  
 selector switch: - maintained action 1.25 million cycles of operation  
 - momentary action 2.5 million cycles of operation  
 e-stop switch: - >= 50'000 cycles of operation  
 keylock switch: - maintained action 25'000 cycles of operation  
 - momentary action 50'000 cycles of operation

### Travel

5.8 ± 0.2 mm

### Resistance to shock

(single impacts, semi-sinusoidal) 30 g for 11 ms as per EN 60 947-5-1

### Resistance to vibration

(sinusoidal) 10 g at 10-2000 Hz, amplitude 0,75 mm as per EN 60 947-5-1

### Rebound time

<= 1 ms

### Ambient air temperature

min. - 25°C (- 40° with restriction)  
 max. without illumination: + 80°C  
 max. with neon lamp + 80°C  
 max. with LED: + 80°C  
 max. with incandescent lamp: + 40°C

## Electrical characteristics

### Rated insulation voltage

500 VAC/600 VDC as per VDE 0100, group C

### Standards

The switches comply with the Rules for low-voltage switching devices EN 60 947-5-1

### Contact resistance

starting value <= 50 mΩ as per IEC 512-2-4

### Insulation resistance

>= 100 mΩ between open contacts at 500 VDC, as per IEC 512-2-10.

### Continuous thermal current Ith<sub>2</sub>

10 A  
 The maximum current in continuous operation and at ambient temperature must not exceed the quoted maximum values.

### Switch rating max.

at switch rating AC for gold-, silver- and hard silver contacts  
 service category AC-15 as per EN60947-5-1 (cos φ = 0.7)  
 voltage: 230 VAC 400 VAC 500 VAC  
 current: 7 A 5 A 4 A

At switch rating DC for gold-, silver- and hard silver contacts  
 service category DC as per EN60947-5-1

L/R=100 ms at P>=50 W and

L/R=2 x P ms<50 W

WOP stands for switch rating in watt

voltage: 24 VDC 60 VDC 110 VDC

current: 10 A 5 A 2.5 A

### Switch rating min.

gold/silver contacts:

voltage 24 VDC 110 VDC

current: 10 mA 2 mA

hard silver contacts:

voltage 24 VDC 110 VDC

current: 50 mA 10 mA

### Electric strength

5000 VAC, 50 Hz, 1 min. between all terminals and earth

## Approvals

- SEV 500 VAC/10 A  
 - CSA 300 VAC  
 - UL 600 VAC HD  
 - German Navy  
 - German Lloyd  
 - CE (declaration of conformity)  
 - CB

## Buzzer

### Buzzer system

#### System

Piezo disc

## Material

### Alarm buzzer case

polyamide

### Front cap

plastic: polyamide

metal: nickel-plated brass sea-water proof

## Mechanical characteristics

### Connection method

plug-in terminal 2.8 x 0.5 mm

### Operating temperature

-25°C to + 50°C

### Storage temperature

-25°C to + 50°C

### Degree of protection

IP 40 as per IEC 529 (flush mounting)

IP 65 (raised fitting) as per IEC 529

## Electrical characteristics

### Frequency (tone)

ca. 2.8 kHz continuous tone only

### Sound pressure

95 db (A) ± 8 at a distance of 0.1 m

### Operation voltage/current

operation voltage: 24 VDC ± 10%

operation current: <= 25 mA

## Selector switch actuator

### Material

#### Front ring

polyamide, aluminium or chromium-plated nickel steel

#### Mounting flange

polyethylene terephthalate

#### Actuator case

polycarbonate, polyamide

### Mechanical characteristics

#### Actuating force

snap-action switching element:  $11-20\text{ N} \pm 1\text{ N}$

slow-make switching element:  $13-36\text{ N} \pm 1\text{ N}$

depending on the number of snap-action elements

#### Storage temperature

$-30^{\circ}\text{C}$  to  $+85^{\circ}\text{C}$

#### Mechanical life

pushbutton:  $\geq 3$  million operations

selector switch:  $\geq 2.5$  million operations

emergency stop switch:  $\geq 50\,000$  operations

keylock switch:  $\geq 50\,000$  operations

#### Travel

$5.8 \pm 0.2\text{ mm}$

#### Degree of protection

front as per IEC 529: IP 65

#### Ambient air temperature

min.  $-25^{\circ}\text{C}$

max. without illumination:  $+80^{\circ}\text{C}$

max. with neon lamp:  $+80^{\circ}\text{C}$

max. with LED:  $+80^{\circ}\text{C}$

max. with incandescent lamp:  $+55^{\circ}\text{C}$

### Electrical characteristics

#### Standards

The switches comply with the "Rules for low-voltage switching devices" EN 60 947-5-1

## Rotary selector switch element

### Mechanical characteristics

#### Number of positions

2 to 12 positions max.

#### Number of contacts

1 to 16 max. normally open contacts

(contact positioning to the rotary plan)

#### Switching angle

Switching position a ( $90^{\circ}$ ) is basic position

maintained action switching angle

12 x  $30^{\circ}$  max.

8 x  $45^{\circ}$  max.

6 x  $60^{\circ}$  max.

4 x  $90^{\circ}$  max.

momentary action with release  $24^{\circ}$

(provide at the beginning or at the end )

#### Standard type of Kraus + Naimer

- CG 4 hardsilver contacts with  $1\text{ }\mu\text{m}$  gold layer

- CG 4-1 hardsilver contacts with  $35\text{ }\mu\text{m}$  gold layer

### Electrical characteristics

#### DC 1, resistive circuits T = 1 ms

1 contact in line

|                     |      |      |      |       |       |       |
|---------------------|------|------|------|-------|-------|-------|
| permissible voltage | 24 V | 48 V | 60 V | 110 V | 220 V | 440 V |
|---------------------|------|------|------|-------|-------|-------|

|                       |        |       |       |       |       |       |
|-----------------------|--------|-------|-------|-------|-------|-------|
| rated service current | 10.0 A | 6.0 A | 2.5 A | 0.7 A | 0.3 A | 0.2 A |
|-----------------------|--------|-------|-------|-------|-------|-------|

2 contacts in line

|                     |      |      |       |       |       |       |
|---------------------|------|------|-------|-------|-------|-------|
| permissible voltage | 48 V | 95 V | 120 V | 220 V | 440 V | 660 V |
|---------------------|------|------|-------|-------|-------|-------|

|                       |        |       |       |       |       |       |
|-----------------------|--------|-------|-------|-------|-------|-------|
| rated service current | 10.0 A | 6.0 A | 2.5 A | 0.7 A | 0.3 A | 0.2 A |
|-----------------------|--------|-------|-------|-------|-------|-------|

3 contacts in line

|                     |      |       |       |       |       |
|---------------------|------|-------|-------|-------|-------|
| permissible voltage | 70 V | 140 V | 180 V | 330 V | 660 V |
|---------------------|------|-------|-------|-------|-------|

|                       |        |       |       |       |       |
|-----------------------|--------|-------|-------|-------|-------|
| rated service current | 10.0 A | 6.0 A | 2.5 A | 0.7 A | 0.3 A |
|-----------------------|--------|-------|-------|-------|-------|

4 contacts in line

|                     |      |       |       |       |
|---------------------|------|-------|-------|-------|
| permissible voltage | 95 V | 190 V | 240 V | 440 V |
|---------------------|------|-------|-------|-------|

|                       |        |       |       |       |
|-----------------------|--------|-------|-------|-------|
| rated service current | 10.0 A | 6.0 A | 2.5 A | 0.7 A |
|-----------------------|--------|-------|-------|-------|

5 contacts in line

|                     |       |       |       |       |
|---------------------|-------|-------|-------|-------|
| permissible voltage | 120 V | 240 V | 300 V | 550 V |
|---------------------|-------|-------|-------|-------|

|                       |        |       |       |       |
|-----------------------|--------|-------|-------|-------|
| rated service current | 10.0 A | 6.0 A | 2.5 A | 0.7 A |
|-----------------------|--------|-------|-------|-------|

6 contacts in line

|                     |       |       |       |       |
|---------------------|-------|-------|-------|-------|
| permissible voltage | 144 V | 290 V | 360 V | 660 V |
|---------------------|-------|-------|-------|-------|

|                       |        |       |       |       |
|-----------------------|--------|-------|-------|-------|
| rated service current | 10.0 A | 6.0 A | 2.5 A | 0.7 A |
|-----------------------|--------|-------|-------|-------|

8 contacts in line

|                     |       |       |       |
|---------------------|-------|-------|-------|
| permissible voltage | 190 V | 350 V | 450 V |
|---------------------|-------|-------|-------|

|                       |        |       |       |
|-----------------------|--------|-------|-------|
| rated service current | 10.0 A | 6.0 A | 2.5 A |
|-----------------------|--------|-------|-------|

#### Inductive circuits T = 50 ms

1 contact in line

|                     |      |      |      |      |       |
|---------------------|------|------|------|------|-------|
| permissible voltage | 24 V | 30 V | 48 V | 60 V | 110 V |
|---------------------|------|------|------|------|-------|

|                       |       |       |       |       |       |
|-----------------------|-------|-------|-------|-------|-------|
| rated service current | 6.0 A | 3.0 A | 1.0 A | 0.7 A | 0.3 A |
|-----------------------|-------|-------|-------|-------|-------|

2 contacts in line

|                     |      |      |      |       |       |
|---------------------|------|------|------|-------|-------|
| permissible voltage | 48 V | 60 V | 95 V | 120 V | 220 V |
|---------------------|------|------|------|-------|-------|

|                       |       |       |       |       |       |
|-----------------------|-------|-------|-------|-------|-------|
| rated service current | 6.0 A | 3.0 A | 1.0 A | 0.7 A | 0.3 A |
|-----------------------|-------|-------|-------|-------|-------|

3 contacts in line

|                     |      |      |       |       |       |
|---------------------|------|------|-------|-------|-------|
| permissible voltage | 72 V | 90 V | 140 V | 180 V | 330 V |
|---------------------|------|------|-------|-------|-------|

|                       |       |       |       |       |       |
|-----------------------|-------|-------|-------|-------|-------|
| rated service current | 6.0 A | 3.0 A | 1.0 A | 0.7 A | 0.3 A |
|-----------------------|-------|-------|-------|-------|-------|

4 contacts in line

|                     |      |       |       |       |       |
|---------------------|------|-------|-------|-------|-------|
| permissible voltage | 96 V | 120 V | 190 V | 240 V | 440 V |
|---------------------|------|-------|-------|-------|-------|

|                       |       |       |       |       |       |
|-----------------------|-------|-------|-------|-------|-------|
| rated service current | 6.0 A | 3.0 A | 1.0 A | 0.7 A | 0.3 A |
|-----------------------|-------|-------|-------|-------|-------|

5 contacts in line

|                     |       |       |       |       |       |
|---------------------|-------|-------|-------|-------|-------|
| permissible voltage | 120 V | 150 V | 240 V | 300 V | 550 V |
|---------------------|-------|-------|-------|-------|-------|

|                       |       |       |       |       |       |
|-----------------------|-------|-------|-------|-------|-------|
| rated service current | 6.0 A | 3.0 A | 1.0 A | 0.7 A | 0.3 A |
|-----------------------|-------|-------|-------|-------|-------|

6 contacts in line

|                     |       |       |       |       |       |
|---------------------|-------|-------|-------|-------|-------|
| permissible voltage | 144 V | 180 V | 290 V | 360 V | 660 V |
|---------------------|-------|-------|-------|-------|-------|

|                       |       |       |       |       |       |
|-----------------------|-------|-------|-------|-------|-------|
| rated service current | 6.0 A | 3.0 A | 1.0 A | 0.7 A | 0.3 A |
|-----------------------|-------|-------|-------|-------|-------|

8 contacts in line

|                     |       |       |       |       |
|---------------------|-------|-------|-------|-------|
| permissible voltage | 190 V | 240 V | 350 V | 450 V |
|---------------------|-------|-------|-------|-------|

|                       |       |       |       |       |       |
|-----------------------|-------|-------|-------|-------|-------|
| rated service current | 6.0 A | 3.0 A | 1.0 A | 0.7 A | 0.3 A |
|-----------------------|-------|-------|-------|-------|-------|

#### Short-circuit-proof

max. insurance (gL-characteristics) 10 A

conditional rated short-circuit current 3 kA

#### Rated service voltage

|     |       |
|-----|-------|
| IEC | 500 V |
|-----|-------|

|    |       |
|----|-------|
| UL | 300 V |
|----|-------|

|     |       |
|-----|-------|
| SEV | 380 V |
|-----|-------|

|        |       |
|--------|-------|
| CEE 24 | 380 V |
|--------|-------|

#### Rated service current $I_0$

10 A

AC 21 switching of resistive load with low overload

AC 1 non or bad inductive load

AC 22 switching of mixed resistive and inductive load with low overload

AC 11 switching of magnetic drives, contactors, valves, draw-in magnet

#### Thermic rated current $I_{th2}$

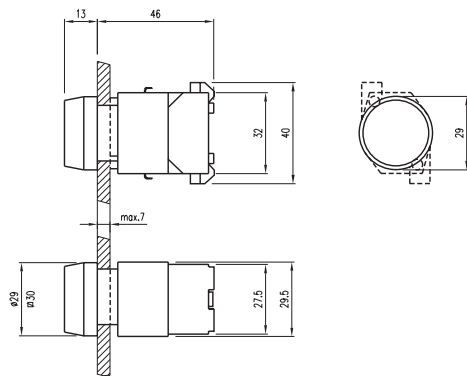
$I_{th2} = 10\text{ A}$

#### Resistance/motor load

CEE 24 4/2 A

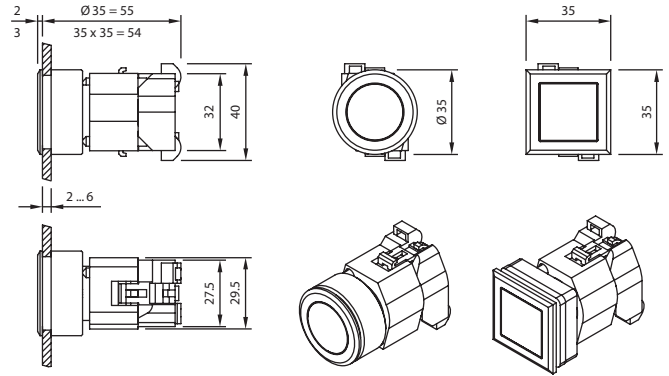
## 04 Indicator

Raised



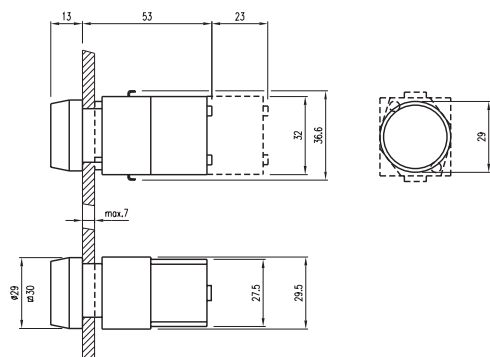
## 04 Indicator

Flush



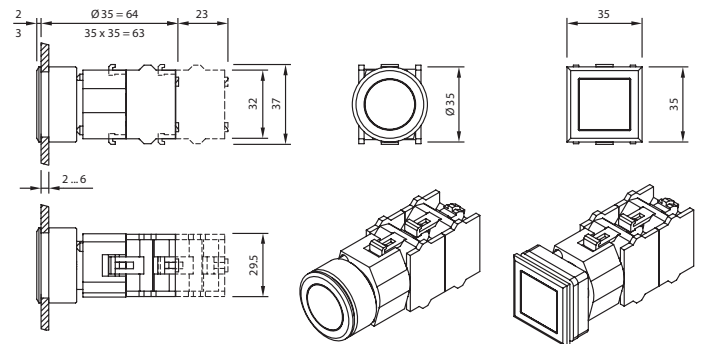
## 04 Pushbutton

Non-Illuminated, Raised



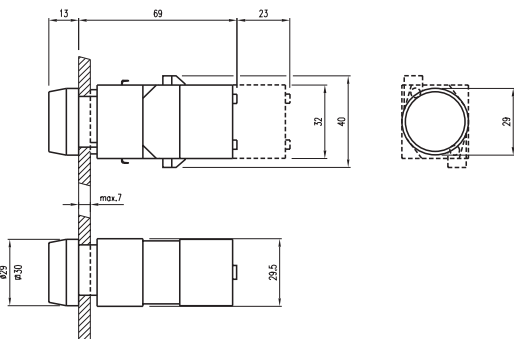
## 04 Pushbutton

Non-Illuminated, Flush



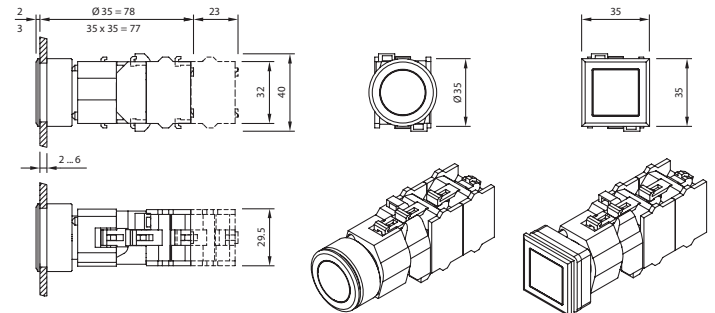
## 04 Pushbutton

Illuminated, Raised



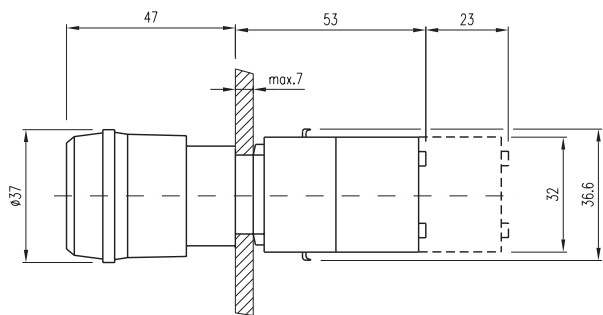
## 04 Pushbutton

Illuminated, Flush



04 E-Stop

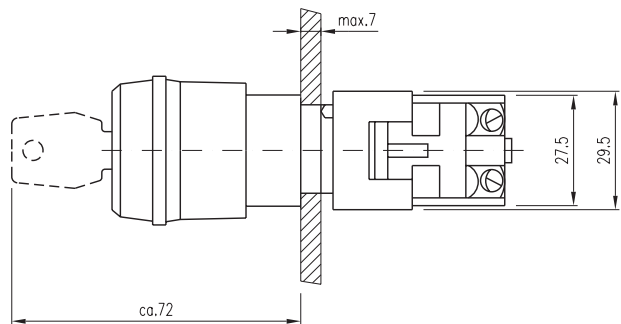
EN 418



twist to release

04 E-Stop

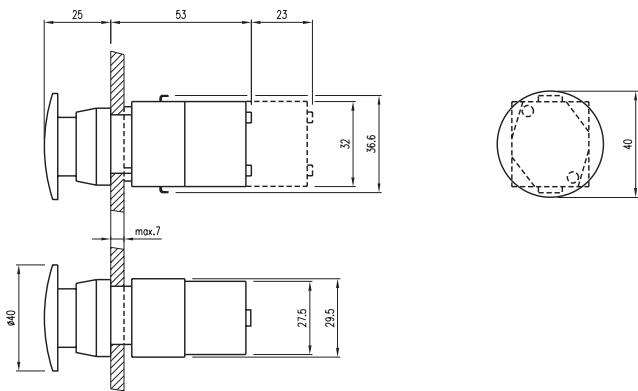
EN 418 with optional key



key to unlock

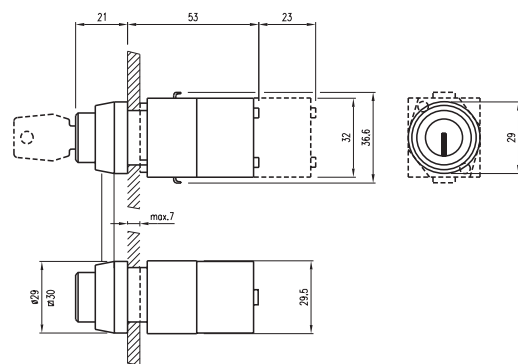
04 E-Stop Mushroom

Pushbutton Mushroom



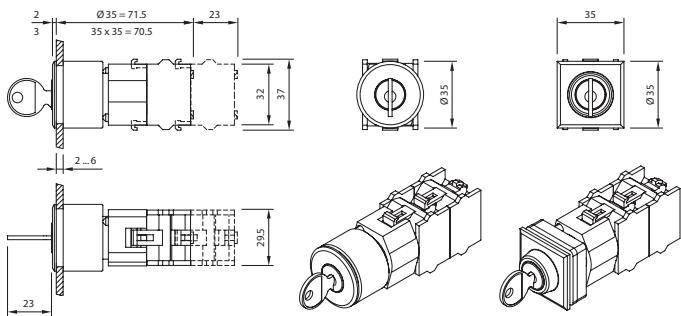
04 Keylock

2-Position, 3-Position, Raised



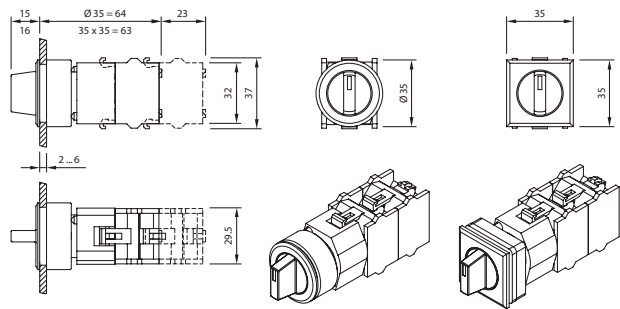
04 Keylock

2-Position, 3-Position, Flush



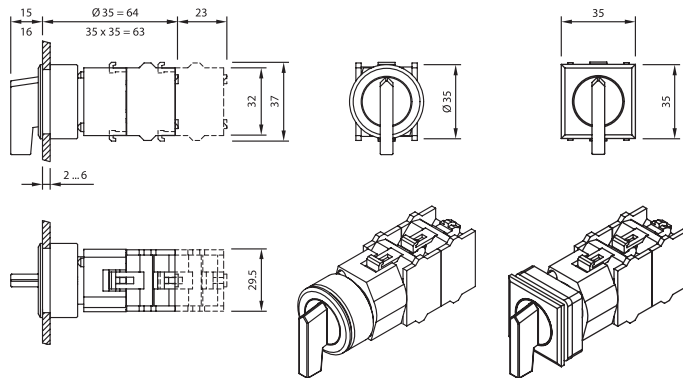
04 Selector

2-Position, 3-Position, Short, Flush



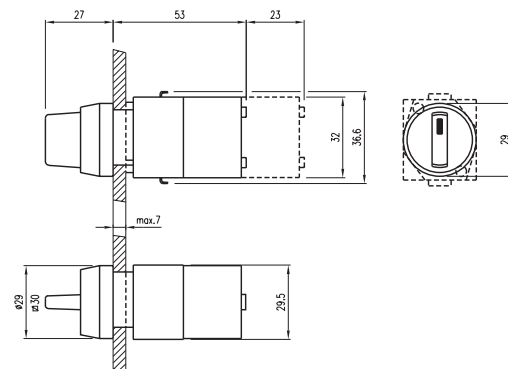
## 04 Selector

2-Position, 3-Position, Long, Flush



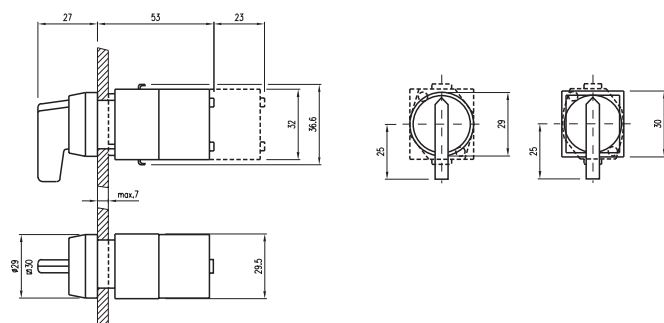
## 04 Selector, Short Lever

2-Position, 3-Position, Raised



## 04 Selector, Long Lever

2-Position, 3-Position, Raised

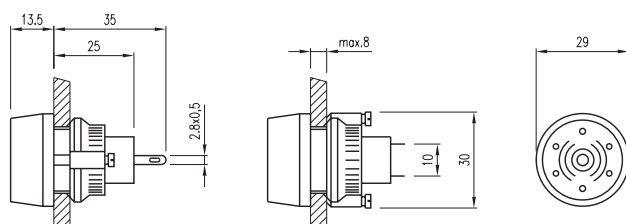


## 04 Lever switch

Separate technical document available.  
Please contact your local sales office.

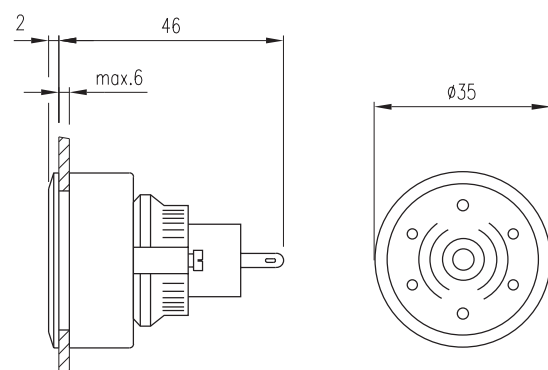
## 04 Buzzer

Raised

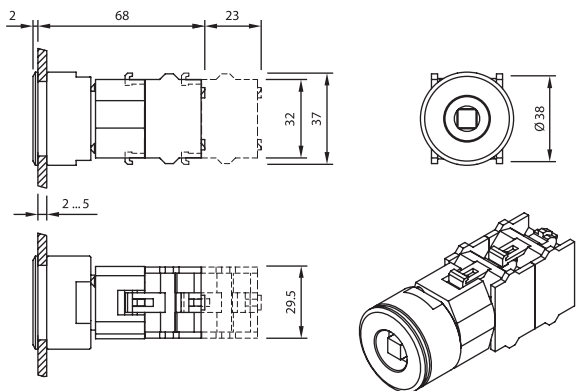


## 04 Buzzer

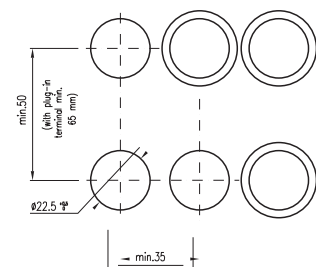
Flush



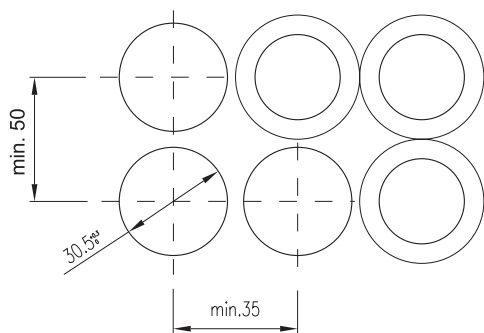
04 Key Insert Switch



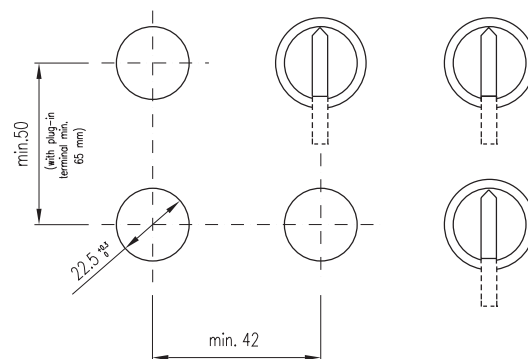
04 Cut-outs, Raised Mounting  
(All but long lever)



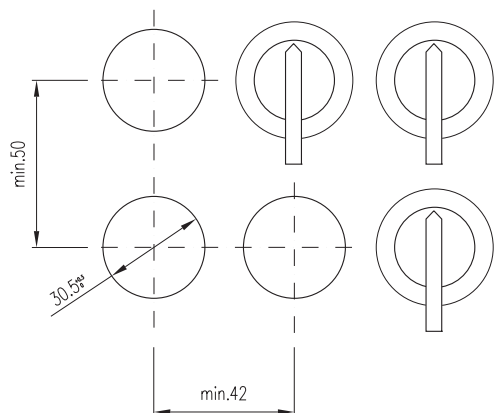
04 Cut-outs, Flush Mounting  
(All but long lever)



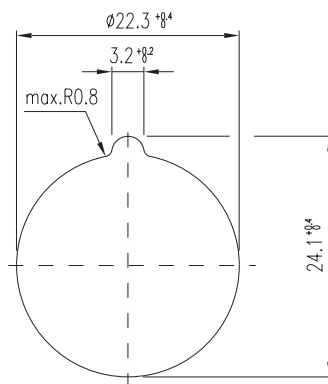
04 Long Lever Cut-outs, Raised Mounting



04 Long Lever Cut-outs, Flush Mounting

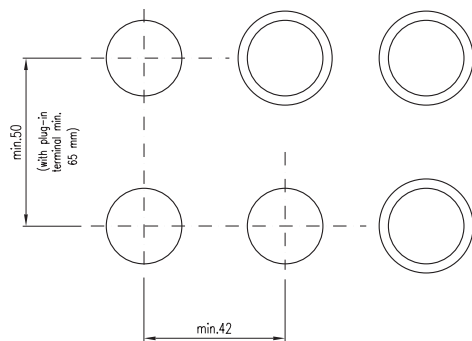


04 E-Stop EN418 Cut-outs

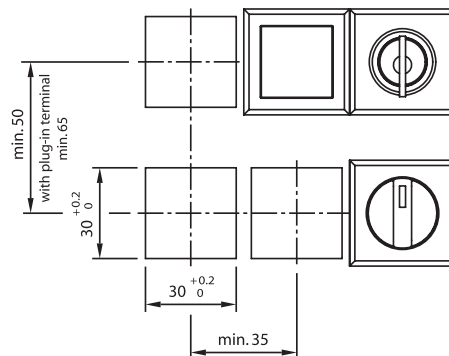


## 04 E-Stop Mushroom Cut-outs

Pushbutton Mushroom

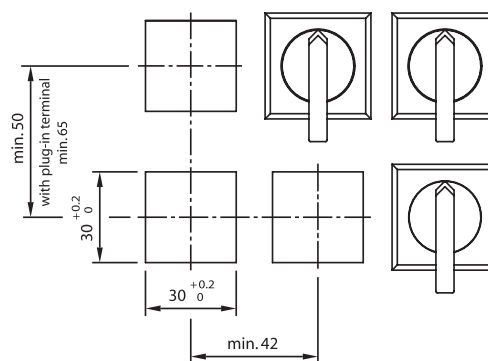
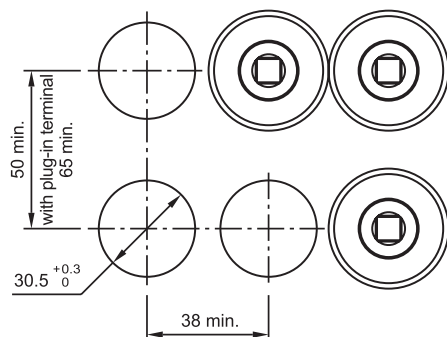


## 04 Cut-outs, Square, Flush Mounting

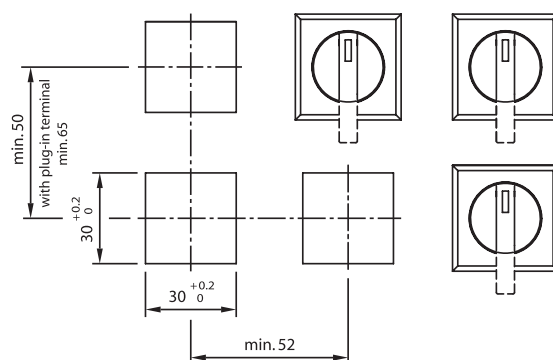


Indicator-, pushbutton-, keylock switch-, selector switch actuator short lever

## 04 Key Insert Cut-outs, Flush Mounting



Selector switch actuator long lever



Multi position rotary selector switch actuator

Компания «Life Electronics» занимается поставками электронных компонентов импортного и отечественного производства от производителей и со складов крупных дистрибьюторов Европы, Америки и Азии.

С конца 2013 года компания активно расширяет линейку поставок компонентов по направлению коаксиальный кабель, кварцевые генераторы и конденсаторы (керамические, пленочные, электролитические), за счёт заключения дистрибьюторских договоров

Мы предлагаем:

- Конкурентоспособные цены и скидки постоянным клиентам.
- Специальные условия для постоянных клиентов.
- Подбор аналогов.
- Поставку компонентов в любых объемах, удовлетворяющих вашим потребностям.
- Приемлемые сроки поставки, возможна ускоренная поставка.
- Доставку товара в любую точку России и стран СНГ.
- Комплексную поставку.
- Работу по проектам и поставку образцов.
- Формирование склада под заказчика.
- Сертификаты соответствия на поставляемую продукцию (по желанию клиента).
- Тестирование поставляемой продукции.
- Поставку компонентов, требующих военную и космическую приемку.
- Входной контроль качества.
- Наличие сертификата ISO.

В составе нашей компании организован Конструкторский отдел, призванный помогать разработчикам, и инженерам.

Конструкторский отдел помогает осуществить:

- Регистрацию проекта у производителя компонентов.
- Техническую поддержку проекта.
- Защиту от снятия компонента с производства.
- Оценку стоимости проекта по компонентам.
- Изготовление тестовой платы монтаж и пусконаладочные работы.



Тел: +7 (812) 336 43 04 (многоканальный)

Email: [org@lifeelectronics.ru](mailto:org@lifeelectronics.ru)

[www.lifeelectronics.ru](http://www.lifeelectronics.ru)