

## 59060 Stainless Steel Threaded Barrel Features and Benefits



### Features

- 2 part magnetically operated proximity sensor
- Stainless steel threaded barrel with retaining nuts
- M8 thread
- Choice of normally open or high voltage contacts
- Customer defined sensitivity
- Choice of cable length and connector

### Benefits

- Robust construction makes this sensor well suited to harsh industrial environments
- Simple installation and adjustment using supplied retaining nuts
- No standby power requirement
- Operates through non-ferrous materials such as wood, plastic or aluminium

### Applications

- Position and limit
- Security systems
- Linear actuator
- Industrial process control

### DIMENSIONS (in) mm



| SCHEMATICS | Switch Type |
|------------|-------------|
|            | 1 & 2       |
|            | 3           |
|            | 4           |

### CUSTOMER OPTIONS - Switching Specifications

| TABLE 1      |                  |                 | Normally Open    | Normally Open High Voltage | Change Over     | Normally Closed |
|--------------|------------------|-----------------|------------------|----------------------------|-----------------|-----------------|
| Contact Type |                  |                 | 1                | 2                          | 3               | 4               |
| Switch Type  | Power            | Watt - max.     | 10               | 10                         | 5               | 5               |
|              | Voltage          | Vdc - max.      | 200              | 300                        | 175             | 175             |
| Current      | Switching        | Vdc - min.      | 250              | 450                        | 200             | 200             |
|              | Carry            | A - max.        | 0.5              | 0.5                        | 0.25            | 0.25            |
| Resistance   | Contact, Initial | A - max.        | 1.2              | 1.5                        | 1.5             | 1.5             |
|              | Insulation       | $\Omega$ - max. | 0.2              | 0.2                        | 0.2             | 0.2             |
| Capacitance  | Contact          | $\Omega$ - min. | 10 <sup>10</sup> | 10 <sup>10</sup>           | 10 <sup>7</sup> | 10 <sup>7</sup> |
|              | Temperature      | pF - typ.       | 0.3              | 0.2                        | 0.3             | 0.3             |
| Time         | Operating        | °C              | -40 to +105      | -20 to +105                | -40 to +105     | -40 to +105     |
|              | Storage          | °C              | -65 to +105      | -65 to +105                | -65 to +105     | -65 to +105     |
| Shock        | Operate          | ms - max.       | 1.0              | 1.0                        | 3.0             | 3.0             |
|              | Release          | ms - max.       | 1.0              | 1.0                        | 3.0             | 3.0             |
| Vibration    | 11ms 1/2 sine    | G - max.        | 100              | 100                        | 50              | 50              |
|              | 50-2000 Hz       | G - max.        | 30               | 30                         | 30              | 30              |

### CUSTOMER OPTIONS - Sensitivity, Cable Length and Termination Specification

| TABLE 2  |   |                             |                  |                             |                  |                             | TABLE 3   |   | TABLE 4                       |   |  |   |  |             |                  |                             |                  |                             |                  |                             |                 |       |        |       |        |       |        |                |  |      |     |  |     |       |               |  |        |        |  |        |  |                   |       |      |       |     |       |     |   |  |               |                      |    |            |    |             |    |             |    |             |    |              |   |  |               |   |        |                          |   |                |
|--|---|-----------------------------|------------------|-----------------------------|------------------|-----------------------------|---|---|-------------------------------|---|--|---|--|-------------|------------------|-----------------------------|------------------|-----------------------------|------------------|-----------------------------|-----------------|-------|--------|-------|--------|-------|--------|----------------|--|------|-----|--|-----|-------|---------------|--|--------|--------|--|--------|--|-------------------|-------|------|-------|-----|-------|-----|---|--|---------------|----------------------|----|------------|----|-------------|----|-------------|----|-------------|----|--------------|---|--|---------------|---|--------|--------------------------|---|----------------|
| <b>Sensitivity Options:-</b><br>Activate Distances are approximate using Hamlin 57060 actuator as illustrated Switch AT before modification  |   |                             |                  |                             |                  |                             | <b>Cable Type:-</b><br>24 AWG 7/32 PVC 105°C DOUBLE INSULATED |   | <b>Termination Options:-</b>  |   |  |   |  |             |                  |                             |                  |                             |                  |                             |                 |       |        |       |        |       |        |                |  |      |     |  |     |       |               |  |        |        |  |        |  |                   |       |      |       |     |       |     |   |  |               |                      |    |            |    |             |    |             |    |             |    |              |   |  |               |   |        |                          |   |                |
|  |   |                             |                  |                             |                  |                             | Standard Lengths  |   | (2 WIRE VERSIONS ILLUSTRATED) |   |  |   |  |             |                  |                             |                  |                             |                  |                             |                 |       |        |       |        |       |        |                |  |      |     |  |     |       |               |  |        |        |  |        |  |                   |       |      |       |     |       |     |   |  |               |                      |    |            |    |             |    |             |    |             |    |              |   |  |               |   |        |                          |   |                |
| <table border="1"> <thead> <tr> <th>Select Option</th> <th>S</th> <th>T</th> <th colspan="2">U</th> <th colspan="2">V</th> </tr> <tr> <th>Switch Type</th> <th>Pull In AT Range</th> <th>Activate Distance d (in) mm</th> <th>Pull In AT Range</th> <th>Activate Distance d (in) mm</th> <th>Pull In AT Range</th> <th>Activate Distance d (in) mm</th> </tr> </thead> <tbody> <tr> <td>1 Normally Open</td> <td>12-18</td> <td>(.472)</td> <td>17-23</td> <td>(.354)</td> <td>22-28</td> <td>(.276)</td> </tr> <tr> <td>2 High Voltage</td> <td></td> <td>12.0</td> <td>9.0</td> <td></td> <td>7.0</td> <td>27-33</td> </tr> <tr> <td>3 Change Over</td> <td></td> <td>(.413)</td> <td>(.295)</td> <td></td> <td>(.236)</td> <td></td> </tr> <tr> <td>4 Normally Closed</td> <td>15-20</td> <td>10.5</td> <td>20-25</td> <td>7.5</td> <td>25-30</td> <td>6.0</td> </tr> </tbody> </table> |   |                             |                  |                             |                  |                             | Select Option   | S | T                             | U |  | V |  | Switch Type | Pull In AT Range | Activate Distance d (in) mm | Pull In AT Range | Activate Distance d (in) mm | Pull In AT Range | Activate Distance d (in) mm | 1 Normally Open | 12-18 | (.472) | 17-23 | (.354) | 22-28 | (.276) | 2 High Voltage |  | 12.0 | 9.0 |  | 7.0 | 27-33 | 3 Change Over |  | (.413) | (.295) |  | (.236) |  | 4 Normally Closed | 15-20 | 10.5 | 20-25 | 7.5 | 25-30 | 6.0 | <table border="1"> <thead> <tr> <th>SELECT OPTION</th> <th>CABLE LENGTH (in) mm</th> </tr> </thead> <tbody> <tr> <td>01</td> <td>(3,94) 100</td> </tr> <tr> <td>02</td> <td>(11,81) 300</td> </tr> <tr> <td>03</td> <td>(19,69) 500</td> </tr> <tr> <td>04</td> <td>(29,53) 750</td> </tr> <tr> <td>05</td> <td>(39,37) 1000</td> </tr> </tbody> </table> |  | SELECT OPTION | CABLE LENGTH (in) mm | 01 | (3,94) 100 | 02 | (11,81) 300 | 03 | (19,69) 500 | 04 | (29,53) 750 | 05 | (39,37) 1000 | <table border="1"> <thead> <tr> <th>SELECT OPTION</th> <th>DESCRIPTION (2 WIRE VERSIONS ILLUSTRATED)</th> </tr> </thead> <tbody> <tr> <td>A or F</td> <td>Tinned or untinned leads</td> </tr> <tr> <td>C</td> <td>6.35mm fastons</td> </tr> </tbody> </table> |  | SELECT OPTION | DESCRIPTION (2 WIRE VERSIONS ILLUSTRATED) | A or F | Tinned or untinned leads | C | 6.35mm fastons |
| Select Option  | S   | T                           | U                |                             | V                |                             |   |   |                               |   |  |   |  |             |                  |                             |                  |                             |                  |                             |                 |       |        |       |        |       |        |                |  |      |     |  |     |       |               |  |        |        |  |        |  |                   |       |      |       |     |       |     |   |  |               |                      |    |            |    |             |    |             |    |             |    |              |   |  |               |   |        |                          |   |                |
| Switch Type  | Pull In AT Range                          | Activate Distance d (in) mm | Pull In AT Range | Activate Distance d (in) mm | Pull In AT Range | Activate Distance d (in) mm |   |   |                               |   |  |   |  |             |                  |                             |                  |                             |                  |                             |                 |       |        |       |        |       |        |                |  |      |     |  |     |       |               |  |        |        |  |        |  |                   |       |      |       |     |       |     |   |  |               |                      |    |            |    |             |    |             |    |             |    |              |   |  |               |   |        |                          |   |                |
| 1 Normally Open  | 12-18                                     | (.472)                      | 17-23            | (.354)                      | 22-28            | (.276)                      |   |   |                               |   |  |   |  |             |                  |                             |                  |                             |                  |                             |                 |       |        |       |        |       |        |                |  |      |     |  |     |       |               |  |        |        |  |        |  |                   |       |      |       |     |       |     |   |  |               |                      |    |            |    |             |    |             |    |             |    |              |   |  |               |   |        |                          |   |                |
| 2 High Voltage   |   | 12.0                        | 9.0              |                             | 7.0              | 27-33                       |   |   |                               |   |  |   |  |             |                  |                             |                  |                             |                  |                             |                 |       |        |       |        |       |        |                |  |      |     |  |     |       |               |  |        |        |  |        |  |                   |       |      |       |     |       |     |   |  |               |                      |    |            |    |             |    |             |    |             |    |              |   |  |               |   |        |                          |   |                |
| 3 Change Over  |   | (.413)                      | (.295)           |                             | (.236)           |                             |   |   |                               |   |  |   |  |             |                  |                             |                  |                             |                  |                             |                 |       |        |       |        |       |        |                |  |      |     |  |     |       |               |  |        |        |  |        |  |                   |       |      |       |     |       |     |   |  |               |                      |    |            |    |             |    |             |    |             |    |              |   |  |               |   |        |                          |   |                |
| 4 Normally Closed  | 15-20                                     | 10.5                        | 20-25            | 7.5                         | 25-30            | 6.0                         |   |   |                               |   |  |   |  |             |                  |                             |                  |                             |                  |                             |                 |       |        |       |        |       |        |                |  |      |     |  |     |       |               |  |        |        |  |        |  |                   |       |      |       |     |       |     |   |  |               |                      |    |            |    |             |    |             |    |             |    |              |   |  |               |   |        |                          |   |                |
| SELECT OPTION  | CABLE LENGTH (in) mm                      |                             |                  |                             |                  |                             |   |   |                               |   |  |   |  |             |                  |                             |                  |                             |                  |                             |                 |       |        |       |        |       |        |                |  |      |     |  |     |       |               |  |        |        |  |        |  |                   |       |      |       |     |       |     |   |  |               |                      |    |            |    |             |    |             |    |             |    |              |   |  |               |   |        |                          |   |                |
| 01   | (3,94) 100                                |                             |                  |                             |                  |                             |   |   |                               |   |  |   |  |             |                  |                             |                  |                             |                  |                             |                 |       |        |       |        |       |        |                |  |      |     |  |     |       |               |  |        |        |  |        |  |                   |       |      |       |     |       |     |   |  |               |                      |    |            |    |             |    |             |    |             |    |              |   |  |               |   |        |                          |   |                |
| 02   | (11,81) 300                               |                             |                  |                             |                  |                             |   |   |                               |   |  |   |  |             |                  |                             |                  |                             |                  |                             |                 |       |        |       |        |       |        |                |  |      |     |  |     |       |               |  |        |        |  |        |  |                   |       |      |       |     |       |     |   |  |               |                      |    |            |    |             |    |             |    |             |    |              |   |  |               |   |        |                          |   |                |
| 03   | (19,69) 500                               |                             |                  |                             |                  |                             |   |   |                               |   |  |   |  |             |                  |                             |                  |                             |                  |                             |                 |       |        |       |        |       |        |                |  |      |     |  |     |       |               |  |        |        |  |        |  |                   |       |      |       |     |       |     |   |  |               |                      |    |            |    |             |    |             |    |             |    |              |   |  |               |   |        |                          |   |                |
| 04   | (29,53) 750                               |                             |                  |                             |                  |                             |   |   |                               |   |  |   |  |             |                  |                             |                  |                             |                  |                             |                 |       |        |       |        |       |        |                |  |      |     |  |     |       |               |  |        |        |  |        |  |                   |       |      |       |     |       |     |   |  |               |                      |    |            |    |             |    |             |    |             |    |              |   |  |               |   |        |                          |   |                |
| 05   | (39,37) 1000                              |                             |                  |                             |                  |                             |   |   |                               |   |  |   |  |             |                  |                             |                  |                             |                  |                             |                 |       |        |       |        |       |        |                |  |      |     |  |     |       |               |  |        |        |  |        |  |                   |       |      |       |     |       |     |   |  |               |                      |    |            |    |             |    |             |    |             |    |              |   |  |               |   |        |                          |   |                |
| SELECT OPTION  | DESCRIPTION (2 WIRE VERSIONS ILLUSTRATED) |                             |                  |                             |                  |                             |   |   |                               |   |  |   |  |             |                  |                             |                  |                             |                  |                             |                 |       |        |       |        |       |        |                |  |      |     |  |     |       |               |  |        |        |  |        |  |                   |       |      |       |     |       |     |   |  |               |                      |    |            |    |             |    |             |    |             |    |              |   |  |               |   |        |                          |   |                |
| A or F   | Tinned or untinned leads                  |                             |                  |                             |                  |                             |   |   |                               |   |  |   |  |             |                  |                             |                  |                             |                  |                             |                 |       |        |       |        |       |        |                |  |      |     |  |     |       |               |  |        |        |  |        |  |                   |       |      |       |     |       |     |   |  |               |                      |    |            |    |             |    |             |    |             |    |              |   |  |               |   |        |                          |   |                |
| C  | 6.35mm fastons                            |                             |                  |                             |                  |                             |   |   |                               |   |  |   |  |             |                  |                             |                  |                             |                  |                             |                 |       |        |       |        |       |        |                |  |      |     |  |     |       |               |  |        |        |  |        |  |                   |       |      |       |     |       |     |   |  |               |                      |    |            |    |             |    |             |    |             |    |              |   |  |               |   |        |                          |   |                |

### ORDERING INFORMATION

N.B. 57060 actuator sold separately



Series 59060

Switch Type

Sensitivity

Cable Length

Termination

Table 1

Table 2

Table 3

Table 4

**Hamlin USA** Tel: +1 920 648 3000 • Fax: +1 920 648 3001 • Email: sales.us@hamlin.com  
**Hamlin UK** Tel: +44 (0)1379 649700 • Fax: +44 (0)1379 649702 • Email: sales.uk@hamlin.com  
**Hamlin Germany** Tel: +49 (0) 6181 953660 • Fax: +49 (0) 6181 953666 • Email: sales.de@hamlin.com  
**Hametrol France** Tel: +33 (0) 1 4687 0202 • Fax: +33 (0) 1 4686 6786 • Email: sales.fr@hamlin.com

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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.



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