

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 | Ω - max. | 0.2 | 0.2 | 0.2 | 0.2 |
| Capacitance | Contact | Ω - min. | 10 ¹⁰ | 10 ¹⁰ | 10 ⁷ | 10 ⁷ |
| | 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 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|--|--------------------------|-----------------------------|------------------|-----------------------------|------------------|-----------------------------|------------------|---|---|--|---|--|---|--|---|--|-------------|------------------|-----------------------------|------------------|-----------------------------|------------------|-----------------------------|------------------|-----------------------------|-----------------|-------|--------|-------|--------|-------|--------|-------|--------|----------------|--|------|--|-----|--|-----|--|-----|---------------|--|--------|--|--------|--|--------|--|--|-------------------|-------|------|-------|-----|-------|-----|--|--|---|--|---------------|----------------------|----|------------|----|-------------|----|-------------|----|-------------|----|--------------|---|--|--------|--------------------------|--|---|----------------|--|
| Sensitivity Options:- Activate Distances are approximate using Hamlin 57060 actuator as illustrated Switch AT before modification | | | | | | | | Cable Type:- 24 AWG 7/32 PVC 105°C DOUBLE INSULATED | | Termination Options:- | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | Standard Lengths | | SELECT OPTION DESCRIPTION (2 WIRE VERSIONS ILLUSTRATED) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <table border="1"> <thead> <tr> <th>Select Option</th> <th colspan="2">S</th> <th colspan="2">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> <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> <td>27-33</td> <td>(.217)</td> </tr> <tr> <td>2 High Voltage</td> <td></td> <td>12.0</td> <td></td> <td>9.0</td> <td></td> <td>7.0</td> <td></td> <td>5.5</td> </tr> <tr> <td>3 Change Over</td> <td></td> <td>(.413)</td> <td></td> <td>(.295)</td> <td></td> <td>(.236)</td> <td></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> <td></td> <td></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 | Pull In AT Range | Activate Distance d (in) mm | 1 Normally Open | 12-18 | (.472) | 17-23 | (.354) | 22-28 | (.276) | 27-33 | (.217) | 2 High Voltage | | 12.0 | | 9.0 | | 7.0 | | 5.5 | 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"> <tbody> <tr> <td>A or F</td> <td>Tinned or untinned leads</td> <td></td> </tr> <tr> <td>C</td> <td>6.35mm fastons</td> <td></td> </tr> </tbody> </table> | | A or F | Tinned or untinned leads | | C | 6.35mm fastons | |
| Select Option | S | | T | | U | | V | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| 2 High Voltage | | 12.0 | | 9.0 | | 7.0 | | 5.5 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 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 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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ORDERING INFORMATION

N.B. 57060 actuator sold separately



Series 59060

Switch Type

Sensitivity

Cable Length

Termination

Table 1

Table 2

Table 3

Table 4

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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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- Консультации по применению компонента;
- Поставка образцов и прототипов;
- Техническая поддержка проекта;
- Защита от снятия компонента с производства.



Как с нами связаться

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