

File E61760(N)

59065 & 59070 Threaded Barrel Features and Benefits



Features

- 2 part magnetically operated proximity sensor
- Threaded barrel with retaining nuts
- Available as M8 (57070/59070) or 5/16 (57065/59065) size options
- Customer defined sensitivity
- Choice of cable length and connector

Benefits

- Simple installation and adjustment using supplied retaining nuts
- No standby power requirement
- Operates through non-ferrous materials such as wood, plastic or aluminium
- Simple installation and adjustment

Applications

- Position and limit sensing
- Security system switch
- Linear actuators
- Industrial process control

DIMENSIONS (in) mm



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 | Switching | Vdc - max. | 200 | 300 | 175 | 175 |
| | Breakdown | Vdc - min. | 250 | 450 | 200 | 200 |
| Current | Switching | A - max. | 0.5 | 0.5 | 0.25 | 0.25 |
| | Carry | A - max. | 1.2 | 1.5 | 1.5 | 1.5 |
| Resistance | Contact, Initial | Ω - max. | 0.2 | 0.2 | 0.2 | 0.2 |
| | Insulation | Ω - min. | 10 ¹⁰ | 10 ¹⁰ | 10 ⁷ | 10 ⁷ |
| Capacitance | Contact | pF - typ. | 0.3 | 0.2 | 0.3 | 0.3 |
| | Temperature | Operating °C | -40 to +105 | -20 to +105 | -40 to +105 | -40 to +105 |
| Time | Storage °C | | -65 to +105 | -65 to +105 | -65 to +105 | -65 to +105 |
| | Operate | ms - max. | 1.0 | 1.0 | 3.0 | 3.0 |
| Shock | Release | ms - max. | 1.0 | 1.0 | 3.0 | 3.0 |
| | 11ms 1/2 sine | G - max. | 100 | 100 | 50 | 50 |
| Vibration | 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 57065/57070 actuator as illustrated. Switch AT before modification. | | | | | | | | Cable Type:- 24 AWG 7/32 PVC 105°C UL1430/UL1569 | | Termination Options:- | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | | | | | | | | Standard Lengths | | SELECT OPTION DESCRIPTION (2 WIRE VERSIONS ILLUSTRATED) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <table border="1"> <thead> <tr> <th>Select Option</th> <th>S</th> <th>T</th> <th>U</th> <th>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>(354)</td> <td>17-23</td> <td>(276)</td> <td>22-28</td> <td>(236)</td> <td>27-33</td> <td>(177)</td> </tr> <tr> <td>2 High Voltage</td> <td></td> <td>9,0</td> <td></td> <td>7,0</td> <td></td> <td>6,0</td> <td></td> <td>4,5</td> </tr> <tr> <td>3 Change Over</td> <td></td> <td>(295)</td> <td></td> <td>(236)</td> <td></td> <td>(197)</td> <td></td> <td></td> </tr> <tr> <td>4 Normally Closed</td> <td>15-20</td> <td>7,5</td> <td>20-25</td> <td>6,0</td> <td>25-30</td> <td>5,0</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 | (354) | 17-23 | (276) | 22-28 | (236) | 27-33 | (177) | 2 High Voltage | | 9,0 | | 7,0 | | 6,0 | | 4,5 | 3 Change Over | | (295) | | (236) | | (197) | | | 4 Normally Closed | 15-20 | 7,5 | 20-25 | 6,0 | 25-30 | 5,0 | | | <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> <tr> <td>D</td> <td>AMP MTE 2.54mm pitch</td> <td></td> </tr> <tr> <td>E</td> <td>JST XHP 2.5mm pitch</td> <td></td> </tr> </tbody> </table> | | | A or F | Tinned or untinned leads | | C | 6.35mm fastons | | D | AMP MTE 2.54mm pitch | | E | JST XHP 2.5mm pitch | |
| 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 | (354) | 17-23 | (276) | 22-28 | (236) | 27-33 | (177) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 2 High Voltage | | 9,0 | | 7,0 | | 6,0 | | 4,5 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| 4 Normally Closed | 15-20 | 7,5 | 20-25 | 6,0 | 25-30 | 5,0 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 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 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
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| C | 6.35mm fastons | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| D | AMP MTE 2.54mm pitch | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| E | JST XHP 2.5mm pitch | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

ORDERING INFORMATION

N.B. 57065/57070 actuator sold separately

59065/59070 - X - X - XX - X

Series 59065/59070

Switch Type — Table 1

Sensitivity — Table 2

Cable Length — Table 3

Termination — Table 4

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Hamlin Germany Tel: +49 (0) 6181 953660 • Fax: +49 (0) 6181 953666 • Email: sales.de@hamlin.com
Hamlectrol France Tel: +33 (0) 1 4687 0202 • Fax: +33 (0) 1 4686 6786 • Email: sales.fr@hamlin.com



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- Лицензия ФСБ на осуществление работ с использованием сведений, составляющих государственную тайну;
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- Подбор аналогов;
- 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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