

## 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

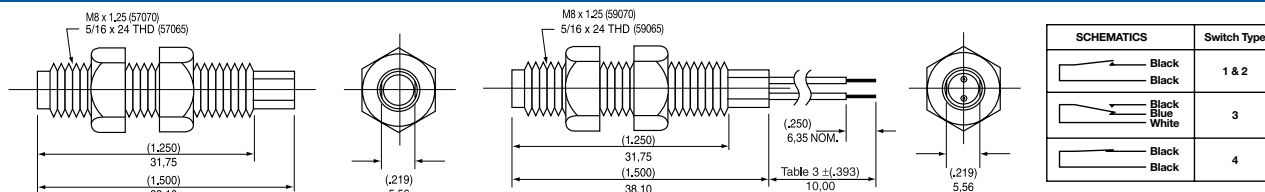
### Benefits

- 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  |                  |             | 1                | 2                          | 3               | 4               |
| Power        | Power            | Watt - max. | 10               | 10                         | 5               | 5               |
|              | Switching        | Vdc - max.  | 200              | 300                        | 175             | 175             |
| Voltage      | Breakdown        | Vdc - min.  | 250              | 450                        | 200             | 200             |
|              | Switching        | A - max.    | 0.5              | 0.5                        | 0.25            | 0.25            |
| Current      | Carry            | A - max.    | 1.2              | 1.5                        | 1.5             | 1.5             |
|              | Contact, Initial | Ω - max.    | 0.2              | 0.2                        | 0.2             | 0.2             |
| Resistance   | Insulation       | Ω - min.    | 10 <sup>10</sup> | 10 <sup>10</sup>           | 10 <sup>9</sup> | 10 <sup>9</sup> |
|              | Contact          | pF - typ.   | 0.3              | 0.2                        | 0.3             | 0.3             |
| Capacitance  | 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     |
| Temperature  | Operate          | ms - max.   | 1.0              | 1.0                        | 3.0             | 3.0             |
|              | Release          | ms - max.   | 1.0              | 1.0                        | 3.0             | 3.0             |
| Shock        | 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                                                                                                                                              |                  |                             |                  |                             |
|------------------------------------------------------------------------------------------------------------------------------------------------------|------------------|-----------------------------|------------------|-----------------------------|
| <b>Sensitivity Options:-</b><br>Activate Distances are approximate using Hamlin 57065/57070 actuator as illustrated<br>Switch AT before modification |                  |                             |                  |                             |
|                                                                                                                                                      |                  |                             |                  |                             |
| Switch Option                                                                                                                                        | S                |                             | T                |                             |
| Switch Type                                                                                                                                          | 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)                      |
| 2 High Voltage                                                                                                                                       |                  | 9.0                         | 7.0              | 22-28                       |
| 3 Change Over                                                                                                                                        |                  | (.295)                      | (.236)           | (.197)                      |
| 4 Normally Closed                                                                                                                                    | 15-20            | 7.5                         | 6.0              | 25-30                       |

| TABLE 3                                                       |                      |
|---------------------------------------------------------------|----------------------|
| <b>Cable Type:-</b><br>24 AWG 7/32 PVC 105°C<br>UL1430/UL1569 |                      |
| Standard Lengths                                              |                      |
| 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 4               |                                           |  |
|-----------------------|-------------------------------------------|--|
| Termination Options:- |                                           |  |
| SELECT OPTION         | DESCRIPTION (2 WIRE VERSIONS ILLUSTRATED) |  |
| A or F                | Tinned or untinned leads                  |  |
| 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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