

## 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

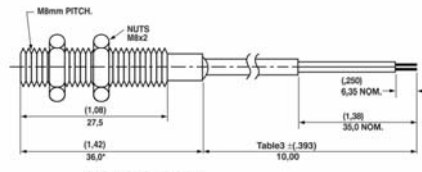
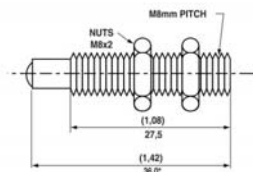
### Benefits

- 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<br>Contact Type |                  |             | Normally Open    | Normally Open High Voltage | Change Over     | Normally Closed |
|-------------------------|------------------|-------------|------------------|----------------------------|-----------------|-----------------|
| 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 57060 actuator as illustrated<br>Switch AT before modification |                  |                             |                  |                             |                  |                             |
|                                                             |                  |                             |                  |                             |                  |                             |
| Select Option                                                                                                                                  | S                |                             | T                |                             | U                |                             |
| 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)                      |                  |                             |                  |                             |
| 2 High Voltage                                                                                                                                 |                  | 12.0                        | 17-23            | 9.0                         | 22-28            | 7.0                         |
| 3 Change Over                                                                                                                                  |                  | (.413)                      |                  | (.295)                      |                  | (.236)                      |
| 4 Normally Closed                                                                                                                              | 15-20            | 10.5                        | 20-25            | 7.5                         | 25-30            | 6.0                         |

| TABLE 3                                                          |                      |
|------------------------------------------------------------------|----------------------|
| <b>Cable Type:-</b><br>24 AWG 7/32 PVC 105°C<br>DOUBLE INSULATED |                      |
| 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                            |  |

## ORDERING INFORMATION

N.B. 57060 actuator sold separately

59060 - X - X - XX - X

Series 59060

Switch Type

Sensitivity

Cable Length

Termination

Table 1

Table 2

Table 3

Table 4

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