

**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

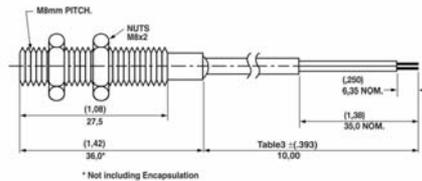
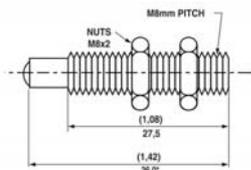
**Benefits**

- 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      | 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 <sup>10</sup> | 10 <sup>10</sup>           | 10 <sup>7</sup> | 10 <sup>7</sup> |
| Capacitance  | Contact          | pF - typ.     | 0.3              | 0.2                        | 0.3             | 0.3             |
|              | Operating        | °C            | -40 to +105      | -20 to +105                | -40 to +105     | -40 to +105     |
| Temperature  | 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             |
| Time         | Release          | ms - max.     | 1.0              | 1.0                        | 3.0             | 3.0             |
|              | Shock            | 11ms 1/2 sine | G - max.         | 100                        | 50              | 50              |
| Vibration    | 50-2000 Hz       | G - max.      | 30               | 30                         | 30              |                 |

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

**TABLE 2**

**Sensitivity Options:-**  
Activate Distances are approximate using Hamlin 57060 actuator as illustrated Switch AT before modification

| 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 3**

**Cable Type:-**  
24 AWG 7/32 PVC 105°C 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         |

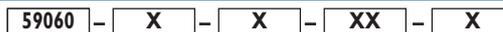
**TABLE 4**

**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



- Series 59060
- Switch Type — Table 1
- Sensitivity — Table 2
- Cable Length — Table 3
- Termination — Table 4

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