

## 59075 Heavy Duty Stainless Steel Threaded Barrel Features and Benefits



### Features

- 2 part magnetically operated proximity sensor
- Heavy duty stainless steel threaded barrel with retaining nuts
- M12 by 1.00mm thread
- Choice of normally open, high voltage or change over contacts
- Customer defined sensitivity
- Choice of cable length and connector

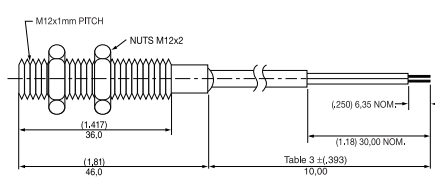
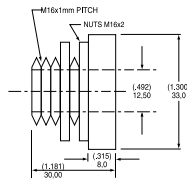
### Benefits

- 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

- Off road and heavy vehicles
- Farm machinery

## DIMENSIONS (in) mm



| SCHEMATICS           | Switch Type |
|----------------------|-------------|
| Blue<br>Brown        | 1 & 2       |
| Black<br>Blue<br>Red | 3           |
| Blue<br>Brown        | 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 +85       | -20 to +85                 | -40 to +85      | -40 to +85      |
|                         | Storage          | °C          | -65 to +85       | -65 to +85                 | -65 to +85      | -65 to +85      |
| 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              |

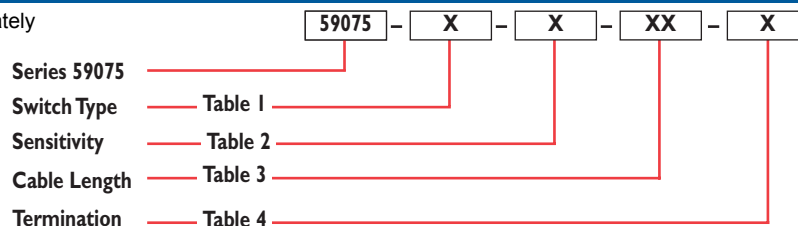
## CUSTOMER OPTIONS - Sensitivity, Cable Length and Termination Specification

| TABLE 2<br>Sensitivity Options:-<br>Activate Distances are approximate using Hamlin 59075 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 |
| 1 Normally Open                                                                                                                                 | 12-18            | (.984)                      | 17-23            | (.827)                      | 22-28            | (.748)                      | 27-33            |
| 2 High Voltage                                                                                                                                  | 25.0             | 21.0                        | 21.0             | 19.0                        | 19.0             | 17.5                        |                  |
| 3 Change Over                                                                                                                                   | (.906)           | (.787)                      | (.709)           |                             |                  |                             |                  |
| 4 Normally Closed                                                                                                                               | 15-20            | 23.0                        | 20-25            | 20.0                        | 18.0             |                             |                  |

| TABLE 3<br>Cable Type:-<br>BS 6500 3A 16/0.2 PVC<br>DOUBLE INSULATED |                      | TABLE 4<br>Termination Options:- |                                           |
|----------------------------------------------------------------------|----------------------|----------------------------------|-------------------------------------------|
| Standard Lengths                                                     |                      | SELECT OPTION                    | DESCRIPTION (2 WIRE VERSIONS ILLUSTRATED) |
| SELECT OPTION                                                        | CABLE LENGTH (in) mm |                                  |                                           |
| 01                                                                   | (3.94) 100           | A or F                           | Tinned or untinned leads                  |
| 02                                                                   | (11.81) 300          |                                  |                                           |
| 03                                                                   | (19.69) 500          |                                  |                                           |
| 04                                                                   | (29.53) 750          |                                  |                                           |
| 05                                                                   | (39.37) 1000         | C                                | 6.35mm fastons                            |

## ORDERING INFORMATION

N.B. 59075 actuator sold separately



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