

## File E61760(N)

## 59125 Pinned Flange Features and Benefits



### Features

- 2 part magnetically operated proximity sensor
- Moulded in terminal pins accept push on connector or wire wrap
- Case design allows screw down or adhesive mounting
- Customer defined sensitivity

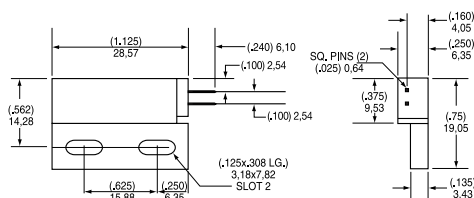
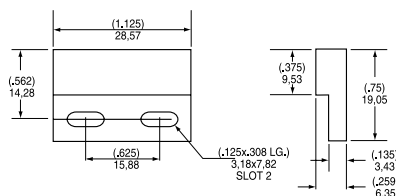
### Benefits

- No standby power requirement
- Operates through non-ferrous materials such as wood, plastic or aluminium
- Hermetically sealed, magnetically operated contacts continue to operate long after optical and other technologies fail due to contamination

### Applications

- Position and limit sensing
- Security system switch
- Linear actuators

## DIMENSIONS (in) mm



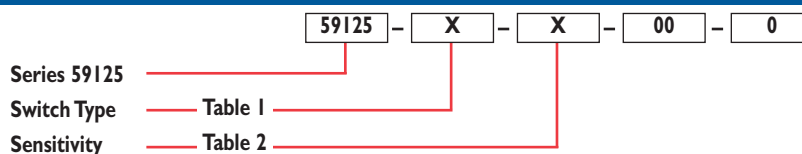
## CUSTOMER OPTIONS - Switching Specifications

| TABLE 1      |                  |                    | Normally Open | Normally Open High Voltage | Normally Closed |
|--------------|------------------|--------------------|---------------|----------------------------|-----------------|
| Contact Type |                  |                    | 1             | 2                          | 4               |
| Switch Type  | Power            | Watt - max.        | 10            | 10                         | 5               |
|              | Switching        | Vdc - max.         | 200           | 300                        | 175             |
| Voltage      | Breakdown        | Vdc - min.         | 250           | 450                        | 200             |
|              | Switching        | A - max.           | 0.5           | 0.5                        | 0.25            |
| Current      | Carry            | A - max.           | 1.2           | 1.5                        | 1.5             |
|              | Contact, Initial | $\Omega$ - max.    | 0.2           | 0.2                        | 0.2             |
| Resistance   | Insulation       | $\Omega$ - min.    | $10^9$        | $10^9$                     | $10^9$          |
|              | Contact          | pF - typ.          | 0.3           | 0.2                        | 0.3             |
| Capacitance  | Operating        | $^{\circ}\text{C}$ | -40 to +105   | -20 to +105                | -40 to +105     |
|              | Storage          | $^{\circ}\text{C}$ | -65 to +105   | -65 to +105                | -65 to +105     |
| Temperature  | Operate          | ms - max.          | 1.0           | 1.0                        | 3.0             |
|              | Release          | ms - max.          | 1.0           | 1.0                        | 3.0             |
| Shock        | 11 ms 1/2 sine   | G - max.           | 100           | 100                        | 50              |
| Vibration    | 50-2000 Hz       | G - max.           | 30            | 30                         | 30              |

## CUSTOMER OPTIONS - Cable Length and Termination Specification

| TABLE 2                                                                                                                                        |                  |                             |                  |                             |                  |                             |                  |
|------------------------------------------------------------------------------------------------------------------------------------------------|------------------|-----------------------------|------------------|-----------------------------|------------------|-----------------------------|------------------|
| <b>Sensitivity Options:-</b><br>Activate Distances are approximate using Hamlin 59125 actuator as illustrated<br>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            | (.394)                      | 17-23            | (.354)                      | 22-28            | (.315)                      | (.295)           |
| 2 High Voltage                                                                                                                                 | 10,0             | 10,0                        | 9,0              | 8,0                         | 27-33            | 7,5                         |                  |
| 4 Normally Closed                                                                                                                              | 15-20            | (.354)                      | 20-25            | (.335)                      | 25-30            | (.295)                      |                  |
|                                                                                                                                                |                  | 9,0                         | 8,5              | 7,5                         |                  |                             |                  |

## ORDERING INFORMATION



Notes 1) Connectors match Molex® SL connector or equivalent. Purchase housing and pins from connector supplier. Assembly required.

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