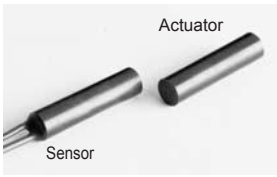


## 59025 Firecracker Features and Benefits



### Features

- 2 part magnetically operated proximity sensor
- UL recognised
- Choice of normally open, normally closed or change over contacts
- Customer defined sensitivity
- Choice of cable length and connector

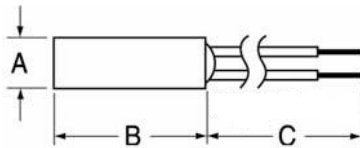
### Benefits

- Quick and easy to install
- 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
- Level sensing
- Linear actuators

## DIMENSIONS (in) mm



|       | A Max       | B Max         | C NOM.                 |
|-------|-------------|---------------|------------------------|
| 57025 | (.245) 6,22 | (1.000) 25,40 | -                      |
| 59025 | (.245) 6,22 | (1.000) 25,40 | Table 3 ± (.393) 10,00 |

| 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  |                  |             |                  |                            |                 |                 |
| Voltage      | Power            | Watt - max. | 10               | 10                         | 5               | 5               |
|              | Switching        | Vdc - max.  | 200              | 300                        | 175             | 175             |
| Current      | Breakdown        | Vdc - min.  | 250              | 450                        | 200             | 200             |
|              | Switching        | A - max.    | 0.5              | 0.5                        | 0.25            | 0.25            |
| Resistance   | Carry            | A - max.    | 1.2              | 1.5                        | 1.5             | 1.5             |
|              | Contact, Initial | Ω - max.    | 0.2              | 0.2                        | 0.2             | 0.2             |
| Capacitance  | Insulation       | Ω - min.    | 10 <sup>10</sup> | 10 <sup>10</sup>           | 10 <sup>9</sup> | 10 <sup>9</sup> |
|              | Contact          | µF - typ.   | 0.3              | 0.2                        | 0.3             | 0.3             |
| Temperature  | 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     |
| Time         | 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                                                                                                                           |                  |                             |                  |                             |                  |                             |                  | TABLE 3                                                    |               | TABLE 4                       |  |
|-----------------------------------------------------------------------------------------------------------------------------------|------------------|-----------------------------|------------------|-----------------------------|------------------|-----------------------------|------------------|------------------------------------------------------------|---------------|-------------------------------|--|
| <b>Sensitivity Options:-</b><br>Activate Distances are approximate using Hamlin 57025 actuator as illustrated before modification |                  |                             |                  |                             |                  |                             |                  | <b>Cable Type:-</b><br>24 AWG 7/32 PVC 105°C UL1430/UL1569 |               | <b>Termination Options:-</b>  |  |
|                                                                                                                                   |                  |                             |                  |                             |                  |                             |                  | Standard Lengths                                           |               | (2 WIRE VERSIONS ILLUSTRATED) |  |
| 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                                | SELECT OPTION | DESCRIPTION                   |  |
| 1 Normally Open                                                                                                                   | 12-18            | (.315)                      | 17-23            | (.236)                      | 22-28            | (.197)                      | 27-33            | (.157)                                                     | A             | Tinned leads (3.8±0.76)mm     |  |
| 2 High Voltage                                                                                                                    | 8.0              | 8.0                         |                  | 6.0                         |                  | 5.0                         |                  | 4.0                                                        | F             | Untinned leads (6.4±0.76)mm   |  |
| 3 Change Over                                                                                                                     | 15-20            | (.276)                      | 20-25            | (.216)                      | 25-30            | (.177)                      |                  |                                                            |               |                               |  |
| 4 Normally Closed                                                                                                                 | 7.0              | 7.0                         |                  | 5.5                         |                  | 4.5                         |                  |                                                            |               |                               |  |
|                                                                                                                                   |                  |                             |                  |                             |                  |                             |                  |                                                            | 01            | (3.94 )100                    |  |
|                                                                                                                                   |                  |                             |                  |                             |                  |                             |                  |                                                            | 02            | (11.81) 300                   |  |
|                                                                                                                                   |                  |                             |                  |                             |                  |                             |                  |                                                            | 03            | (19.69) 500                   |  |
|                                                                                                                                   |                  |                             |                  |                             |                  |                             |                  |                                                            | 04            | (29.53) 750                   |  |
|                                                                                                                                   |                  |                             |                  |                             |                  |                             |                  |                                                            | 05            | (39,37)1000                   |  |

## ORDERING INFORMATION

N.B. 57025 actuator sold separately

59025 - X - X - XX - X

Series 59025

Switch Type

Sensitivity

Cable Length

Termination

Table 1

Table 2

Table 3

Table 4

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Issue No.: 5 DCR No.: B8163 Issue: Flash Du Date: 9/26/2011

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[EI1204TBOSL-6](#) [EI5515NPAP](#) [BSA-08-25-08](#) [IC08ANC15PO-K](#) [IMM2582C](#) [25.161.3253.0](#) [25.332.0653.1](#) [25.352.0653.0](#) [25.352.0753.0](#)  
[25.523.3253.0](#) [9151710023](#) [922FS1.5C-A4P-Z774](#) [SC606ABV0S30](#) [SM952A126100LE](#) [A1220EUA-T](#) [F3S-A162-U](#) [CL18](#) [QT-08L](#)  
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