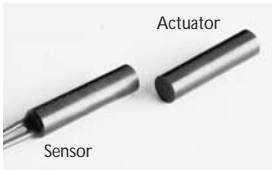


## 59025 Firecracker Features and Benefits



### 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

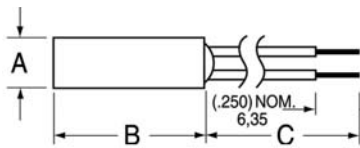
### Benefits

- 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						
	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	100	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> Activate Distances are approximate using Hamlin 57025 actuator as illustrated Switch AT before modification								<b>Cable Type:-</b> 24 AWG 7/32 PVC 105°C ULI430/UL1569		<b>Termination Options:-</b>			
								Standard Lengths		<b>SELECT OPTION</b>	<b>DESCRIPTION (2 WIRE VERSIONS ILLUSTRATED)</b>		
<b>Select Option</b>	<b>S</b>	<b>T</b>		<b>U</b>		<b>V</b>		<b>SELECT OPTION</b>	<b>CABLE LENGTH (in) mm</b>				
<b>Switch Type</b>	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	(.315)	17-23	(.236)	22-28	(.197)	27-33	(.157)	01	(3,94) 100			
2 High Voltage	8.0		6.0		5.0		4.0		02	(11,81) 300			
3 Change Over	(.276)		(.216)		(.177)				03	(19,69) 500			
4 Normally Closed	15-20	7.0	20-25	5.5	25-30	4.5			04	(29,53) 750			
									05	(39,37) 1000			
											A or F Tinned or untinned leads C 6.35mm fastons D AMP MTE 2.54mm pitch E JST XHP 2.5mm pitch		

## 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

**Hamlin USA** Tel: +1 920 648 3000 • Fax: +1 920 648 3001 • Email: sales.us@hamlin.com  
**Hamlin UK** Tel: +44 (0)1379 649700 • Fax: +44 (0)1379 649702 • Email: sales.uk@hamlin.com  
**Hamlin Germany** Tel: +49 (0) 6181 953660 • Fax: +49 (0) 6181 9536666 • Email: sales.de@hamlin.com  
**Hametrol France** Tel: +33 (0) 1 4687 0202 • Fax: +33 (0) 1 4686 6786 • Email: sales.fr@hamlin.com