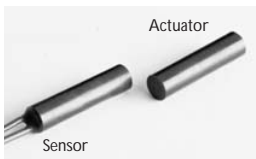


File E61760(N)

## 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

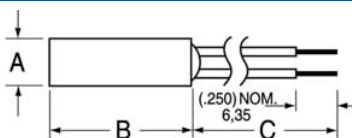
### Benefits

- 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 I Contact Type			Normally Open	Normally Open High Voltage	Change Over	Normally Closed
Switch Type			1	2	3	4
	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>9</sup>	10 <sup>9</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 Sensitivity Options:- Activate Distances are approximate using Hamlin 57025 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	(.315) 8.0	17-23	(.236) 6.0	22-28	(.197) 5.0	27-33	(.157) 4.0
2 High Voltage								
3 Change Over	15-20	(.276) 7.0	20-25	(.216) 5.5	25-30	(.177) 4.5		
4 Normally Closed								

TABLE 3 Cable Type:- 24 AWG 7/32 PVC 105°C UL1430/UL1569	
Standard Lengths	
SELECT OPTION	CABLE LENGTH (in) mm
02	(11,81) 300
05	(39,37) 1,000
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	
D	AMP MTE 2.54mm pitch	
E	IST XHP 2.5mm pitch	

### ORDERING INFORMATION

N.B. 57025 actuator sold separately



- Series 59025
- Switch Type — Table I
- Sensitivity — Table 2
- Cable Length — Table 3
- Termination — Table 4

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