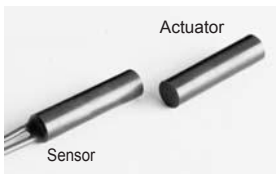


File E61760(N)

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

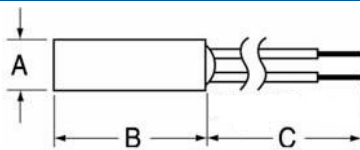
Benefits

- 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 1 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 ¹⁰	10 ¹⁰	10 ⁹	10 ⁹
	Contact	pF - typ.	0.3	0.2	0.3	0.3
Capacitance	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
Temperature	Operate	ms - max.	1.0	1.0	3.0	3.0
	Release	ms - max.	1.0	1.0	3.0	3.0
Time	11ms 1/2 sine	G - max.	100	100	50	50
	50-2000 Hz	G - max.	30	30	30	30
Shock						
Vibration						

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
1 Normally Open	12-18	(.315) 8.0	17-23	(.236) 6.0	22-28	(.197) 5.0	27-33
2 High Voltage		8.0		6.0		5.0	4.0
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
01	(3.94)100
02	(11.81) 300
03	(19.69) 500
04	(29.53) 750
05	(39.37)1000

TABLE 4 Termination Options:-	
SELECT OPTION	DESCRIPTION (2 WIRE VERSIONS ILLUSTRATED)
A	Tinned leads (3.8±0.76)mm
F	Untinned leads (6.4±0.76)mm

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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