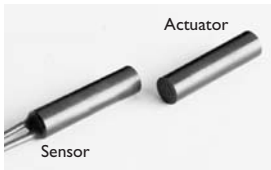


59020 Mini Firecracker Features and Benefits



Features

- 2 part magnetically operated proximity sensor
- Normally open contact
- Customer defined sensitivity
- Choice of cable length and connector

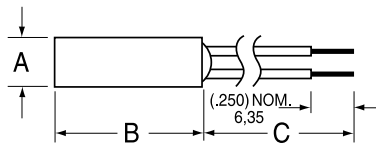
Benefits

- 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.
57020	(.201) 5,10	(.600) 15,24	-
59020	(.201) 5,10	(.600) 15,24	Table 3 ± (.393) 10,00

CUSTOMER OPTIONS - Switching Specifications

TABLE 1 Contact Type			Normally Open
Switch Type			I
Power	Power	Watt - max.	10
	Switching	Vdc - max.	170
Voltage	Breakdown	Vdc - min.	175
	Switching	A - max.	0.5
Current	Carry	A - max.	0.5
	Contact, Initial	Ω - max.	0.2
Resistance	Insulation	Ω - min.	10 ¹⁰
	Contact	pF - typ.	0.2
Capacitance	Operating	°C	-40 to +105
	Storage	°C	-65 to +105
Temperature	Operate	ms - max.	1.0
	Release	ms - max.	1.0
Shock	11ms 1/2 sine	G - max.	100
Vibration	50-2000 Hz	G - max.	30

CUSTOMER OPTIONS - Sensitivity, Cable Length and Termination Specification

TABLE 2

Sensitivity Options:-

Activate Distances are approximate using Hamlin 57020 actuator as illustrated.

Switch AT before modification

Select Option	S	T	U			
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
I Normally Open	6-10	(.236) 6,0	10-15	(.177) 4,5	13-19	(.157) 4,0

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
A	Tinned leads
C	6.35mm fastons
D	AMP MTE 2.54mm pitch
E	JST XHP 2.5mm pitch

ORDERING INFORMATION

N.B. 57020 actuator sold separately

Series 59020

Switch Type

Sensitivity

Cable Length

Termination

59020 - I - X - XX - X

Table 1

Table 2

Table 3

Table 4

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