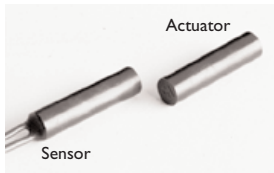


59020 Mini Firecracker Features and Benefits



Features

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

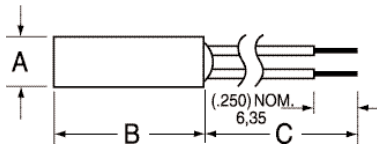
Benefits

- 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

Farnell: 554 1499

Farnell: 554 0653

CUSTOMER OPTIONS - Switching Specifications

TABLE 1			Normally Open
Contact Type			I
Switch Type	Power	Watt - max.	3
Voltage	Switching	Vdc - max.	100
	Breakdown	Vdc - min.	170
Current	Switching	A - max.	0.25
	Carry	A - max.	0.5
Resistance	Contact, Initial	Ω - max.	0.2
	Insulation	Ω - min.	10 ¹⁰
Capacitance	Contact	pF - typ.	0.2
Temperature	Operating	°C	-40 to +105
	Storage	°C	-65 to +105
Time	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	
	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	7-15	(.216) 5,5	15-25	(.138) 3,5	25-30	(.098) 2,5

TABLE 3

Cable Type:-
26 AWG 7/34 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	
B	Crimped terminals	
C	6.35mm fastons	
D	AMP MTE 2.54mm pitch	
E	JST XHP 2.5mm pitch	

ORDERING INFORMATION

59020 - I - X - XX - X

Series 59020

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 953666 • Email: sales.de@hamlin.com
Hamletrol France Tel: +33 (0) 1 4687 0202 • Fax: +33 (0) 1 4686 6786 • Email: sales.fr@hamlin.com