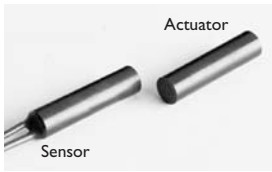


## 59020 Mini Firecracker Features and Benefits



### Features

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

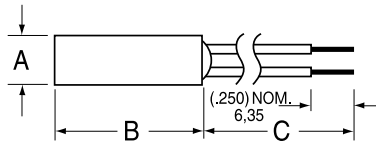
### Benefits

- 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			Normally Open
Contact Type			I
Switch Type			I
Power	Watt - max.		10
	Vdc - max.		170
Voltage	Switching		175
	Breakdown		
Current	A - max.		0.5
	A - max.		0.5
Resistance	Contact, Initial	Ω - max.	0.2
	Insulation	Ω - min.	10 <sup>10</sup>
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							TABLE 3		TABLE 4		
<b>Sensitivity Options:-</b> Activate Distances are approximate using Hamlin 57020 actuator as illustrated. Switch AT before modification							<b>Cable Type:-</b> 24 AWG 7/32 PVC 105°C UL1430/UL1569		<b>Termination Options:-</b>		
							Standard Lengths SELECT OPTION   CABLE LENGTH (in) mm		SELECT OPTION   DESCRIPTION		
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	01	(3,94) 100	A	Tinned leads	
I	Normally Open	6-10 (.236) 6,0	10-15 (.177) 4,5	13-19 (.157) 4,0			02	(11,81) 300	C	6.35mm fastons	
							03	(19,69) 500	D	AMP MTE 2.54mm pitch	
							04	(29,53) 750	E	JST XHP 2.5mm pitch	
							05	(39,37) 1000			

## ORDERING INFORMATION

N.B. 57020 actuator sold separately

59020 - I - X - XX - X

Series 59020

Switch Type

Sensitivity

Cable Length

Termination

Table 1

Table 2

Table 3

Table 4

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**Hamlin Germany** Tel: +49 (0) 6181 953660 • Fax: +49 (0) 6181 953666 • Email: sales.de@hamlin.com  
**Hamactrol France** Tel: +33 (0) 1 4687 0202 • Fax: +33 (0) 1 4686 6786 • Email: sales.fr@hamlin.com

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