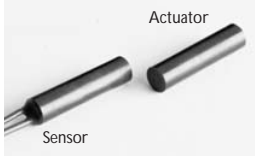


File E61760(N)

## 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

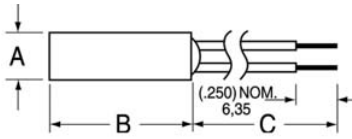
### Benefits

- 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

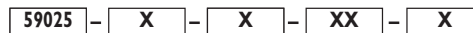
TABLE I Contact Type			Normally Open	Normally Open High Voltage	Change Over	Normally Closed
Switch Type			1	2	3	4
	Power	Watt - max.	10	10	5	5
Voltage	Switching	Vdc - max.	200	300	175	175
	Breakdown	Vdc - min.	250	450	200	200
Current	Switching	A - max.	0.5	0.5	0.25	0.25
	Carry	A - max.	1.2	1.5	1.5	1.5
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									TABLE 3		TABLE 4																																																																													
<b>Sensitivity Options:-</b> Activate Distances are approximate using Hamlin 57025 actuator as illustrated Switch AT before modification 									<b>Cable Type:-</b> 24 AWG 7/32 PVC 105°C UL1430/UL1569		<b>Termination Options:-</b> (2 WIRE VERSIONS ILLUSTRATED)																																																																													
<table border="1"> <thead> <tr> <th>Select Option</th> <th colspan="2">S</th> <th colspan="2">T</th> <th colspan="2">U</th> <th colspan="2">V</th> </tr> <tr> <th>Switch Type</th> <th>Pull In AT Range</th> <th>Activate Distance d (in) mm</th> <th>Pull In AT Range</th> <th>Activate Distance d (in) mm</th> <th>Pull In AT Range</th> <th>Activate Distance d (in) mm</th> <th>Pull In AT Range</th> <th>Activate Distance d (in) mm</th> </tr> </thead> <tbody> <tr> <td>1 Normally Open</td> <td>12-18</td> <td>(.315)</td> <td>17-23</td> <td>(.236)</td> <td>22-28</td> <td>(.197)</td> <td>27-33</td> <td>(.157)</td> </tr> <tr> <td>2 High Voltage</td> <td></td> <td>8.0</td> <td></td> <td>6.0</td> <td></td> <td>5.0</td> <td></td> <td>4.0</td> </tr> <tr> <td>3 Change Over</td> <td>15-20</td> <td>(.276)</td> <td>20-25</td> <td>(.216)</td> <td>25-30</td> <td>(.177)</td> <td></td> <td></td> </tr> <tr> <td>4 Normally Closed</td> <td></td> <td>7.0</td> <td></td> <td>5.5</td> <td></td> <td>4.5</td> <td></td> <td></td> </tr> </tbody> </table>									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)	17-23	(.236)	22-28	(.197)	27-33	(.157)	2 High Voltage		8.0		6.0		5.0		4.0	3 Change Over	15-20	(.276)	20-25	(.216)	25-30	(.177)			4 Normally Closed		7.0		5.5		4.5			Standard Lengths <table border="1"> <thead> <tr> <th>SELECT OPTION</th> <th>CABLE LENGTH (in) mm</th> </tr> </thead> <tbody> <tr> <td>02</td> <td>(11,81) 300</td> </tr> <tr> <td>05</td> <td>(39,37) 1,000</td> </tr> <tr> <td>03</td> <td>(19,69) 500</td> </tr> <tr> <td>04</td> <td>(29,53) 750</td> </tr> <tr> <td>05</td> <td>(39,37) 1000</td> </tr> </tbody> </table>		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 border="1"> <thead> <tr> <th>SELECT OPTION</th> <th>DESCRIPTION</th> </tr> </thead> <tbody> <tr> <td>A or F</td> <td>Tinned or untinned leads</td> </tr> <tr> <td>C</td> <td>6.35mm fastons</td> </tr> <tr> <td>D</td> <td>AMP MTE 2.54mm pitch</td> </tr> <tr> <td>E</td> <td>IST XHP 2.5mm pitch</td> </tr> </tbody> </table>		SELECT OPTION	DESCRIPTION	A or F	Tinned or untinned leads	C	6.35mm fastons	D	AMP MTE 2.54mm pitch	E	IST XHP 2.5mm pitch
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### 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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