



Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from,Europe,America and south Asia,supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of "Quality Parts,Customers Priority,Honest Operation,and Considerate Service",our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip,ALPS,ROHM,Xilinx,Pulse,ON,Everlight and Freescale. Main products comprise IC,Modules,Potentiometer,IC Socket,Relay,Connector.Our parts cover such applications as commercial,industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



Contact us

Tel: +86-755-8981 8866 Fax: +86-755-8427 6832

Email & Skype: info@chipsmall.com Web: www.chipsmall.com

Address: A1208, Overseas Decoration Building, #122 Zhenhua RD., Futian, Shenzhen, China



59020 and 59025 Firecracker Features and Benefits



Features

- 2 Part Magnetically Operated Proximity Sensor
- 304mm (12") lead outs
- UL Recognised
- Choice of normally open, normally closed or change over switching
- Subminiature version also available

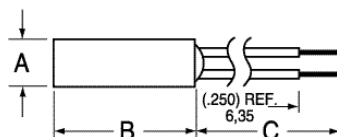
Benefits

- 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

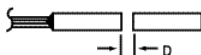
- Position and limit sensing
- Security
- Level sensing
- Linear actuators

DIMENSIONS



	A Max	B Max	C ± .250 (15,24)	
57020	(.201) 5,10	(.600) 15,24	-	
57025	(.245) 6,22	(1.00) 25,4	-	
59020	(.201) 5,10	(.650) 16,4	(12.00) 304,8	
59025	(.201) 6,22	(1.00) 25,4	(12.00) 304,8	File E61760(N)

Recommended Activating Positions:



Sensors and Matching Actuators (Note 2)		Actuator	Sensor				
Must Actuate	Must Release						
.100 (2,54)	.300 (7,62)	57020-000	59020-010	—	—	—	—
.150 (3,81)	.800 (20,32)	57025-000	—	59025-010	59025-020	59025-030	59025-040

Electrical Specifications and Operating Characteristics			Form A	Form A	Form A	Form C	Form B
Contact Type			SPST-NO Signal Level	SPST-NO Standard	SPST-NO High Voltage	SPDT-CO Standard	SPST-NC Standard
Contact Rating		Watt - max.	3	10	10	5	5
Voltage	Switching	Vdc - max.	100	200	300	175	175
	Breakdown	Vdc - min.	170	250	450	200	200
Current	Switching	A - max.	0.25	0.5	0.5	0.25	0.25
	Carry	A - max.	0.5	1.2	1.5	1.5	1.5
Resistance	Contact, Initial	Ω - max.	0.2	0.2	0.2	0.2	0.2
	Insulation	Ω - min.	10 ¹⁰	10 ¹⁰	10 ¹⁰	10 ¹⁰	10 ¹⁰
Capacitance	Contact	p F - typ.	0.2	0.3	0.2	0.3	0.3
Temperature	Operating	°C	-40 to + 105	-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	-65 to + 105
Time	Operate	ms - typ.	1.0	1.0	1.0	1.0	1.0
	Release	ms - typ.	1.0	1.0	1.0	1.0	1.0
Shock	11ms 1/2 sine	G - max.	100	100	100	50	50
Vibration	50-2000 Hz	G - max.	30	30	30	30	30

- Notes: 1. Flying Leads 59025 are 24 AWG 7/32 PVC, 105 deg. C., UL 1569. Leads are stripped .250 (6,35), untinned. **59020** 26 AWG, UL 1569
 2. Order Actuators as a separate item.
 3. Underwriters Laboratories recognition. For details on electrical specifications, contact Hamlin, Inc.

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Breed Electronics USA Tel: 001 920 648 3000 • Fax: 001 920 648 3001 • Email: sales@hamlin.com
Breed Electronics UK Tel: +44 (0) 1379 649700 • Fax: +44 (0) 1379 649702 • Email: uksales@breedtech.com
Breed Electronics Germany Tel: +49 (0) 6181 953660 • Fax: +49 (0) 6181 953666 • Email: hamlin-electronics.de@breedtech.com
Breed Electronics France Tel: +33 1 46 87 02 02 • Fax: +33 1 46 86 67 86 • Email: hamectrol@hamectrol.fr