

File E61760(N)

59135 High Temperature Flange Mount Features and Benefits



Features

- 2 part magnetically operated proximity sensor
- High temperature rated
- Cross-slotted mounting holes for optimum adjustability
- Standard, high voltage or change over contacts
- Customer defined sensitivity
- Choice of cable length and connector

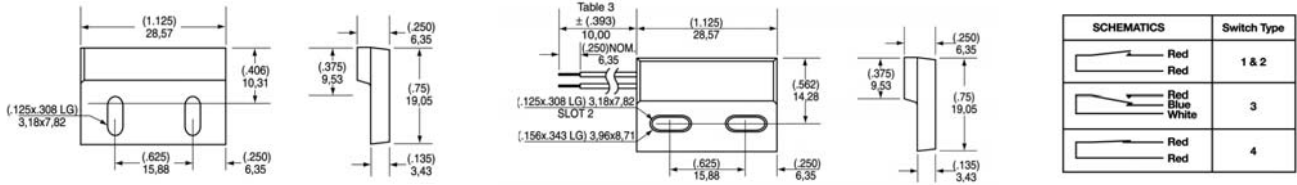
Benefits

- 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
- Simple installation and adjustment

Applications

- Position and limit sensing
- Security system switch
- Linear actuators
- Door switch

DIMENSIONS (in) mm



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	Power	Watt - max.	10	10	5	5
	Switching	Vdc - max.	200	300	175	175
Voltage	Breakdown	Vdc - min.	250	450	200	200
	Switching	A - max.	0.5	0.5	0.25	0.25
Current	Carry	A - max.	1.2	1.5	1.5	1.5
	Contact, Initial	Ω - max.	0.2	0.2	0.2	0.2
Resistance	Insulation	Ω - min.	10 ¹⁰	10 ¹⁰	10 ⁷	10 ⁷
	Contact	pF - typ.	0.3	0.2	0.3	0.3
Capacitance	Operating	°C	-40 to +150	-20 to +150	-40 to +150	-40 to +150
	Storage	°C	-65 to +150	-65 to +150	-65 to +150	-65 to +150
Temperature	Operate	ms - max.	1.0	1.0	3.0	3.0
	Release	ms - max.	1.0	1.0	3.0	3.0
Time	Shock	11ms 1/2 sine	G - max.	100	50	50
Shock	Vibration	50-2000 Hz	G - max.	30	30	30

CUSTOMER OPTIONS - Sensitivity, Cable Length and Termination Specification

TABLE 2							TABLE 3		TABLE 4			
Sensitivity Options:- Activate Distances are approximate using Hamlin 57135 actuator as illustrated Switch AT before modification							Cable Type:- 20 AWG 19/32 FEP UL1130/UL1332		Termination Options:-			
							Standard Lengths		SELECT OPTION	DESCRIPTION (2 WIRE VERSIONS ILLUSTRATED)		
Switch Type	S Pull In AT Range	T Activate Distance d (in) mm	U Pull In AT Range	V Activate Distance d (in) mm	W Pull In AT Range	X Activate Distance d (in) mm	01	02	03	04	05	
1 Normally Open	12-18 (748)	17-23 (709)	22-28 (630)	27-33 (591)	15.0	15.0	(3,94) 100	(11,81) 300	(19,69) 500	(29,53) 750	(39,37) 1000	
2 High Voltage	19.0	18.0	16.0	16.0	15.0	15.0						
3 Change Over	15-20 (650)	20-25 (591)	25-30 (531)	13.5	13.5	13.5						
4 Normally Closed	16.5	15.0	13.5	13.5	13.5	13.5						

ORDERING INFORMATION

N.B. 57135 actuator sold separately

59135 - X - X - XX - X

Series 59135

Switch Type

Sensitivity

Cable Length

Termination

Table I

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

DETAILS PROVIDED ON THIS DATA SHEET ARE PROVIDED FOR INFORMATION PURPOSES ONLY AND SHOULD NOT BE RELIED UPON AS BEING ACCURATE FOR ANY PARTICULAR PURPOSE. Product performance may be affected by the application to which the product is put. Upon request, HAMLIN will assist purchasers by providing information specific to any particular application. HAMLIN disclaims any and all liability whatsoever for any purchaser's reliance upon the information contained on this data sheet without further consultation with authorised representatives of HAMLIN.