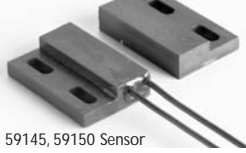


File E61760(N)

## 59145 and 59150 Flange Mount Features and Benefits

57145, 57150 Actuator



59145, 59150 Sensor

### Features

- 2 part magnetically operated proximity sensor
- Flying leads can exit either left or right hand side of the housing
- Case design allows screw down or adhesive mounting
- Customer defined sensitivity
- Choice of cable length and connector

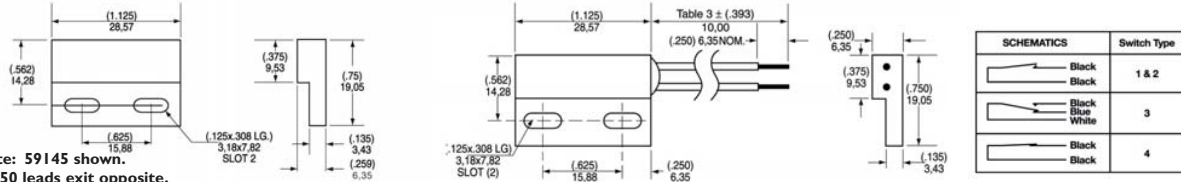
### Benefits

- 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

### Applications

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

## DIMENSIONS (in) mm



Note: 59145 shown. 59150 leads exit opposite.

## CUSTOMER OPTIONS - Switching Specifications

Contact Type			Normally Open	Normally Open High Voltage	Change Over	Normally Closed
Switch Type			1	2	3	4
Voltage	Power	Watt - max.	10	10	5	5
	Switching	Vdc - max.	200	300	175	175
Current	Breakdown	Vdc - min.	250	450	200	200
	Switching	A - max.	0.5	0.5	0.25	0.25
Resistance	Carry	A - max.	1.2	1.5	1.5	1.5
	Contact, Initial	Ω - max.	0.2	0.2	0.2	0.2
Capacitance	Insulation	Ω - min.	10 <sup>10</sup>	10 <sup>10</sup>	10 <sup>9</sup>	10 <sup>9</sup>
	Contact	pF - typ.	0.3	0.2	0.3	0.3
Temperature	Operating	°C	-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
Time	Operate	ms - max.	1.0	1.0	3.0	3.0
	Release	ms - max.	1.0	1.0	3.0	3.0
Shock	11ms 1/2 sine	G - max.	100	100	50	50
Vibration	50-2000 Hz	G - max.	30	30	30	30

## CUSTOMER OPTIONS - Sensitivity, Cable Length and Termination Specification

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
1 Normally Open	12-18	(531)	17-23	(453)
2 High Voltage	13.5	11.5	22-28	(394)
3 Change Over	15-20	(433)	11.5	10.0
4 Normally Closed	11.0	9.0	25-30	(335)

TABLE 3

**Cable Type:-**  
24 AWG 7/32 PVC 105°C ULI430/UL1569

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 4

**Termination Options:-**

Select Option	Description (2 WIRE VERSIONS ILLUSTRATED)
A or F	Tinned or untinned leads
C	6.35mm fastons
D	AMP MTE 2.54mm pitch
E	JST XHP 2.5mm pitch

## ORDERING INFORMATION

N.B. 57145/57150 actuator sold separately



Series 59145/59150

Switch Type — Table 1

Sensitivity — Table 2

Cable Length — Table 3

Termination — 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)6142 923920 • Fax: +49 (0) 6142 923921 • Email: sales.de@hamlin.com  
**Hamctrol France** Tel: +33 (0) 1 6047 3000 • Fax: +33 (0) 1 6015 9136 • Email: sales.fr@hamlin.com

ISSUE No: 4 DATE: 1/5/3

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.