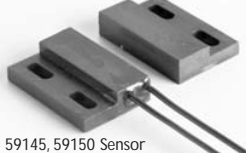


File E61760(N)

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

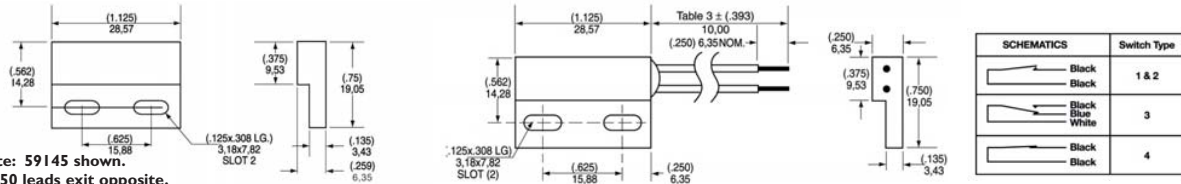
Benefits

- 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



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 ¹⁰	10 ¹⁰	10 ⁹	10 ⁹
Capacitance	Contact	pF - typ.	0.3	0.2	0.3	0.3
	Temperature	Operating	°C	-40 to +105	-20 to +105	-40 to +105
Time	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
Shock	Release	ms - max.	1.0	1.0	3.0	3.0
	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

TABLE 2		TABLE 3		TABLE 4																																															
Sensitivity Options:- Activate Distances are approximate using Hamlin 57145/57150 actuator as illustrated. Switch AT before modification.		Cable Type:- 24 AWG 7/32 PVC 105°C ULI430/UL1569		Termination Options:-																																															
		Standard Lengths		(2 WIRE VERSIONS ILLUSTRATED)																																															
<table border="1"> <thead> <tr> <th>Select Option</th> <th>S</th> <th>T</th> <th>U</th> <th>V</th> </tr> </thead> <tbody> <tr> <td>1 Normally Open</td> <td>12-18</td> <td>(531)</td> <td>17-23</td> <td>(453)</td> </tr> <tr> <td>2 High Voltage</td> <td>13.5</td> <td>11.5</td> <td>22-28</td> <td>(394)</td> </tr> <tr> <td>3 Change Over</td> <td>15-20</td> <td>(433)</td> <td>11.5</td> <td>10.0</td> </tr> <tr> <td>4 Normally Closed</td> <td>11.0</td> <td>9.0</td> <td>25-30</td> <td>(335)</td> </tr> </tbody> </table>	Select Option	S	T	U	V	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 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>JST 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	JST XHP 2.5mm pitch
Select Option	S	T	U	V																																															
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)																																															
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																																																		
SELECT OPTION	DESCRIPTION																																																		
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

59145/59150 - X - X - XX - X

Series 59145/59150

Switch Type — Table I

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
 Hametrol 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.