

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

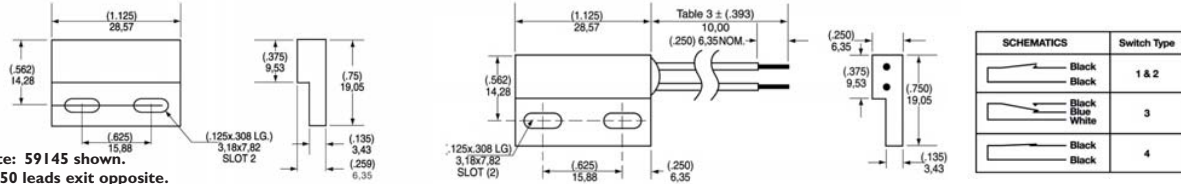
Benefits

- 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

TABLE I			Normally Open	Normally Open High Voltage	Change Over	Normally Closed
Contact Type						
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
	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

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 UL1430/UL1569		Termination Options:-		
Select Option	S		T		U		SELECT OPTION	DESCRIPTION (2 WIRE VERSIONS ILLUSTRATED)	
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			
1 Normally Open	12-18	(.531)	17-23	(.453)	22-28	(.394)	A or F	Tinned or untinned leads	
2 High Voltage	13.5	11.5	11.5	10.0	27-33	(.354)			
3 Change Over	15-20	(.433)	20-25	(.354)	25-30	(.335)	C	6.35mm fastons	
4 Normally Closed	11.0	9.0	9.0	8.5		9.0	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.