

File E61760(N)

## 59145 and 59150 Flange Mount Features and Benefits



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



SCHEMATICS	Switch Type
	1 & 2
	3
	4

## CUSTOMER OPTIONS - Switching Specifications

TABLE 1 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 <sup>10</sup>	10 <sup>10</sup>	10 <sup>7</sup>	10 <sup>7</sup>
	Contact	pF - typ.	0.3	0.2	0.3	0.3
Capacitance	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
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			
<b>Sensitivity Options:-</b> Activate Distances are approximate using Hamlin 57145/57150 actuator as illustrated Switch AT before modification								<b>Cable Type:-</b> 24 AWG 7/32 PVC 105°C ULI1430/UL1569		<b>Termination Options:-</b>			
								Standard Lengths		<b>SELECT OPTION</b>	<b>DESCRIPTION (2 WIRE VERSIONS ILLUSTRATED)</b>		
<b>Switch Type</b>	<b>S</b> Pull In AT Range Activate Distance d (in) mm	<b>T</b> Pull In AT Range Activate Distance d (in) mm	<b>U</b> Pull In AT Range Activate Distance d (in) mm	<b>V</b> Pull In AT Range Activate Distance d (in) mm				<b>SELECT OPTION</b>	<b>CABLE LENGTH (in) mm</b>				
1 Normally Open	12-18 (.531)	17-23 (.453)	22-28 (.394)	27-33 (.354)				02	(11,81) 300				
2 High Voltage	13,5	11,5	10,0	9,0				05	(39,37) 1,000				
3 Change Over	(.433)	(.354)	(.335)					03	(19,69) 500	C 6.35mm fastons			
4 Normally Closed	15-20	20-25	25-30	8,5				04	(29,53) 750	D AMP MTE 2.54mm pitch			
								05	(39,37) 1000	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

Sensitivity

Cable Length

Termination

Table 1

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

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