

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

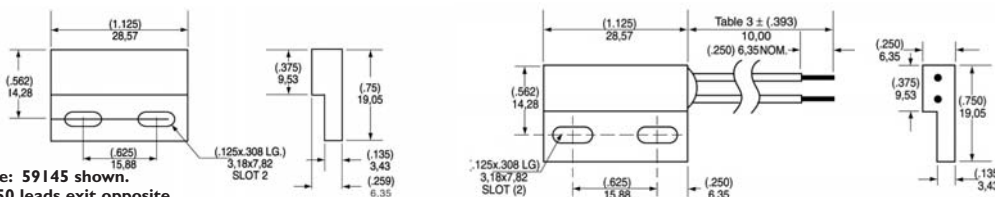
Benefits

- 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



Note: 59|45 shown.
59|50 leads exit opposite.

SCHEMATICS	Switch Type
 Black Black	1 & 2
 Black Blue White	3
 Black Black	4

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	$^{\circ}\text{C}$	-40 to +105	-20 to +105	-40 to +105	-40 to +105
	Storage	$^{\circ}\text{C}$	-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:-	
						Standard Lengths		SELECT OPTION DESCRIPTION (2 WIRE VERSIONS ILLUSTRATED)	
Switch Type	S	T		U		V		A or F	C
	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	Pull In AT Range		
1 Normally Open	12-18	(.531)	17-23	(.453)	22-28	(.394)	27-33	Tinned or untinned leads	
2 High Voltage		13.5		11.5		10.0			
3 Change Over		(.433)		(.354)		(.335)			
4 Normally Closed	15-20	11.0	20-25	9.0	25-30	8.5			
								D	AMP MTE 2.54mm pitch
								E	JST XHP 2.5mm pitch
									

ORDERING INFORMATION

N.B. 57145/57150 actuator sold separately



Series 59 | 45/59 | 50

Switch Type — **Table 1**

Sensitivity — Table 2

Cable Length — **Table 3**

Termination — Table 4

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