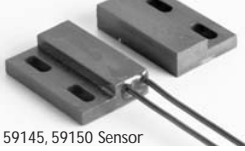


File E61760(N)

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

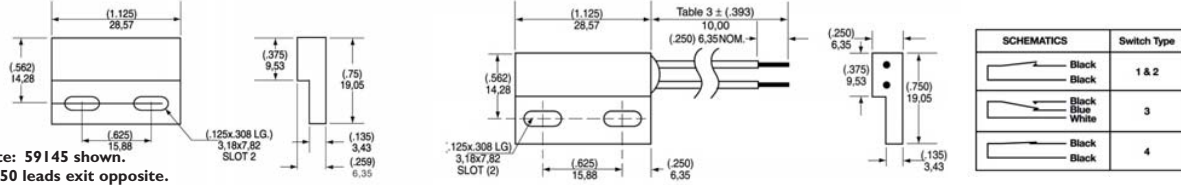
Benefits

- 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



SCHEMATICS	Switch Type
	1 & 2
	3
	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
Time	Storage	$^{\circ}\text{C}$	-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 UL1430/UL1569		Termination Options:-	
Select Option	S	T	U	V	SELECT OPTION	CABLE LENGTH (in) mm	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	A or F	Tinned or untinned leads
1 Normally Open	12-18	(.531)	17-23	(.453)	22-28	(.394)	02	(11,81) 300
2 High Voltage	13.5	(.531)	11.5	(.453)	10.0	(.394)	05	(39,37) 1,000
3 Change Over	15-20	(.433)	20-25	(.354)	25-30	(.335)	03	(19,69) 500
4 Normally Closed	11.0	(.433)	9.0	(.354)	8.5	(.335)	04	(29,53) 750
							05	(39,37) 1000

ORDERING INFORMATION

N.B. 57145/57150 actuator sold separately

59145/59150 - X - X - XX - X

Series 59145/59150

Switch Type — Table 1

Sensitivity — Table 2

Cable Length — Table 3

Termination — Table 4

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