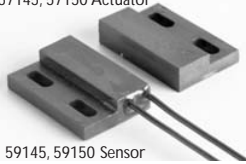


File E61760(N)

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

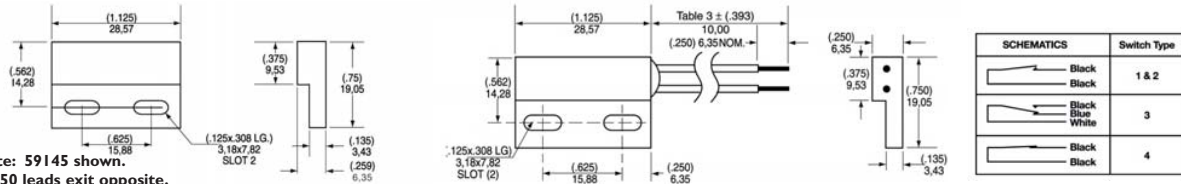
Benefits

- 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)	
Select Option Switch Type	S Pull In AT Range Activate Distance d (in) mm	T Pull In AT Range Activate Distance d (in) mm	U Pull In AT Range Activate Distance d (in) mm	V Pull In AT Range Activate Distance d (in) mm	SELECT OPTION DESCRIPTION
1 Normally Open 2 High Voltage 3 Change Over 4 Normally Closed	12-18 (531) 13.5 (531) 15-20 (433) 11.0 (433)	17-23 (453) 11.5 (453) 20-25 (354) 9.0 (354)	22-28 (394) 10.0 (394) 25-30 (335) 8.5 (335)	27-33 (354) 9.0 (354)	A or F Tinned or untinned leads C 6.35mm fastons D AMP MTE 2.54mm pitch E JST XHP 2.5mm pitch
					(2 WIRE VERSIONS ILLUSTRATED)

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

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