

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

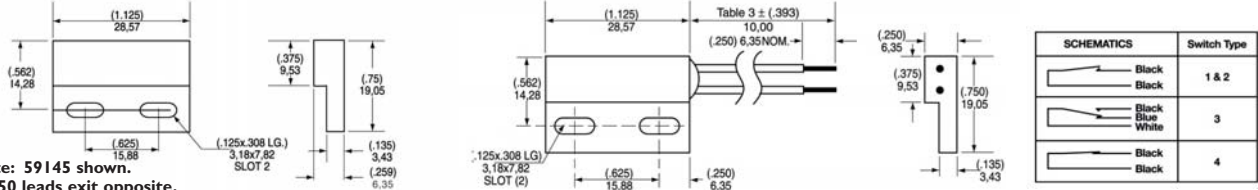
Benefits

- 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



Note: 59145 shown. 59150 leads exit opposite.

SCHEMATICS	Switch Type
	1 & 2
	3
	4

CUSTOMER OPTIONS - Switching Specifications

TABLE 1			Normally Open	Normally Open High Voltage	Change Over	Normally Closed
Contact Type			1	2	3	4
Switch Type	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 ⁷	10 ⁷
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 ULI1430/UL1569		Termination Options:-			
								Standard Lengths		SELECT OPTION	DESCRIPTION (2 WIRE VERSIONS ILLUSTRATED)		
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	CABLE LENGTH (in) mm					
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 — Table 1

Sensitivity — Table 2

Cable Length — Table 3

Termination — Table 4

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