

59145 Farnell Codes : 5541189-1190-1207-1219 sensor : 1782782 actuator

59150 Farnell Codes : 5541220-1232-1244-1256 sensor : 1435607 actuator



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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

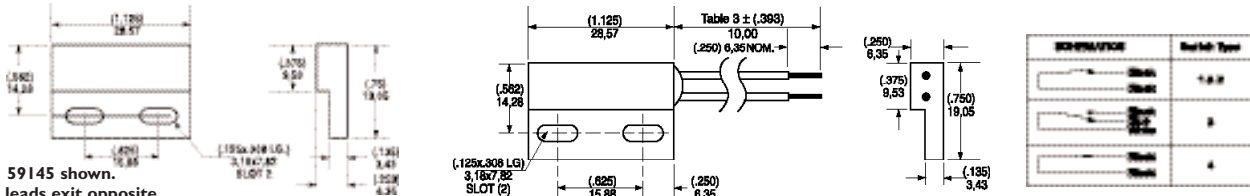
Benefits

- 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.

CUSTOMER OPTIONS - Switching Specifications

TABLE 1			Normally Open	Normally Open High Voltage	Change Over	Normally Closed
Contact Type			1	2	3	4
Switch Type						
Voltage	Power	Watt - max.	10	10	5	5
	Switching	Vdc - max.	200	300	175	175
Current	Breakdown	Vdc - min.	250	450	200	200
	Switching	A - max.	0.5	0.5	0.25	0.25
Resistance	Carry	A - max.	1.2	1.5	1.5	1.5
	Contact, Initial	Ω - max.	0.2	0.2	0.2	0.2
Capacitance	Insulation	Ω - min.	10 ¹⁰	10 ¹⁰	10 ⁷	10 ⁷
	Contact	pF - typ.	0.3	0.2	0.3	0.3
Temperature	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
Time	Operate	ms - max.	1.0	1.0	3.0	3.0
	Release	ms - max.	1.0	1.0	3.0	3.0
Shock	1 ms 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		S		T		U		SELECT OPTION	CABLE LENGTH (in) mm		
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	Pull In AT Range				
1 Normally Open	12-18	(.531)	17-23	(.453)	22-28	(.394)	27-33	01	(3.94) 100		
2 High Voltage		13.5		11.5		10.0		02	(11.81) 300		
3 Change Over		(.433)		(.354)		(.335)		03	(19.69) 500		
4 Normally Closed	15-20	11.0	20-25	9.0	25-30	8.5		04	(29.53) 750		
								05	(39.37) 1000		

ORDERING INFORMATION

59145/59150 - X - X - XX - X

Series 59145/59150

Switch Type

Sensitivity

Cable Length

Termination

Table 1

Table 2

Table 3

Table 4

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