

File E61760(N) 59145 and 59150 Flange Mount Features and Benefits



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
- 300mm (12") Flying leads

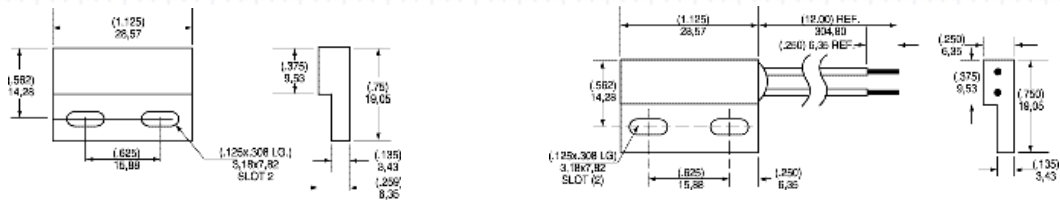
Benefits

- 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
- Simple installation and adjustment

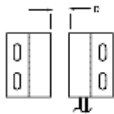
Applications

- Position and limit sensing
- Security system switch
- Linear actuators
- Door switch

DIMENSIONS



Recommended Activating Positions:



Sensors and Matching Actuators (Note 2)		Actuator			Sensor	
Must Actuate	Must Release					
.225 (5,71)	.800 (20,32)	59145-000	59145-010	59145-020	59145-030	59145-040
.225 (5,71)	.800 (20,32)	59150-000	59150-010	59150-020	59150-030	59150-040

Electrical Specifications and Operating Characteristics			Form A SPST-NO Standard	Form A SPST-NO High Voltage	Form C SPDT-CO Standard	Form B SPST-NC Standard
Contact Type						
Contact Rating		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	p F - 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 - typ.	1.0	1.0	1.0	1.0
	Release	ms - typ.	1.0	1.0	1.0	1.0
Shock	11ms 1/2 sine	G - max.	100	100	50	50
Vibration	50-2000 Hz	G - max.	30	30	30	30

- Notes: 1. Flying Leads except as shown below are 24 AWG 7/32 PVC, 105 deg. C., UL 1569. Leads are stripped .250 (6,35), untinned.
 2. Order Actuators as a separate item.
 3. Underwriters Laboratories recognition. For details on electrical specifications, contact Hamlin, Inc.

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