

File E61760(N) 59105 Terminal Flange Features and Benefits



Features

- 2 Part Magnetically Operated Proximity Sensor
- Shrouded terminals accept Molex SL series connector
- Case design allows screw down or adhesive mounting
- 300mm (12") Flying leads

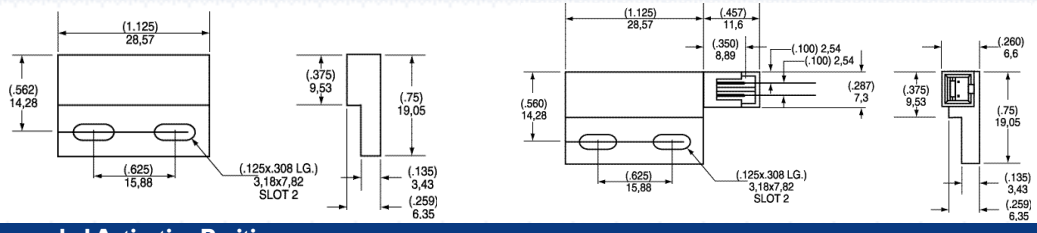
Benefits

- 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

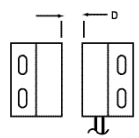
Applications

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

DIMENSIONS



Recommended Activating Positions:



Sensors and Matching Actuators (Note 2)		Actuator		Sensor	
Must Actuate	Must Release				
.150 (3,81)	.800 (20,32)	57105-000	59105-010	59105-020	59105-030

Electrical Specifications and Operating Characteristics			Form A SPT-NO , SPT Standard	Form A SPT-NO High Voltage	Form C SPT-CO Standard
Contact Type					
Contact Rating		Watt - max.	10	10	5
Voltage	Switching	Vdc - max.	200	300	175
	Breakdown	Vdc - min.	250	450	200
Current	Switching	A - max.	0.5	0.5	0.25
	Carry	A - max.	1.2	1.5	1.5
Resistance	Contact, Initial	- max.	0.2	0.2	0.2
	Insulation	- min.	10 ¹⁰	10 ¹⁰	10 ⁷
Capacitance	Contact	p F - typ.	0.3	0.2	0.3
Temperature	Operating	°C	-40 to + 105	-20 to + 105	-40 to + 105
	Storage	°C	-65 to + 105	-65 to + 105	-65 to + 105
Time	Operate	ms - typ.	1.0	1.0	1.0
	Release	ms - typ.	1.0	1.0	1.0
Shock	11ms 1/2 sine	G - max.	100	100	50
Vibration	50-2000 Hz	G - max.	30	30	30

- Notes:
1. Flying Leads 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. Connectors match Molex® SL connector or equivalent. Purchase housing and pins from connector supplier. Assembly required.
 4. Underwriters Laboratories recognition. For details on electrical specifications, contact Hamlin, Inc.

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