

59105 Terminal Flange Features and Benefits

57105 Actuator



59105 Sensor

Features

- 2 part magnetically operated proximity sensor
- Shrouded terminals accept Molex SL series connector
- Case design allows screw down or adhesive mounting
- Customer defined sensitivity

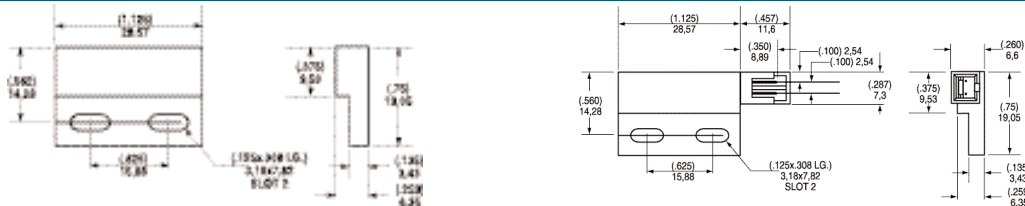
Benefits

- 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 (in) mm



CUSTOMER OPTIONS - Switching Specifications

TABLE 1			Normally Open	Normally Open High Voltage	Normally Closed
Contact Type			1	2	4
Switch Type	Power	Watt - max.	10	10	5
	Voltage	Vdc - max.	200	300	175
Current	Switching	Vdc - min.	250	450	200
	Carry	A - max.	0.5	0.5	0.25
Resistance	Contact, Initial	Ω - max.	0.2	0.2	0.2
	Insulation	Ω - min.	10^{10}	10^{10}	10^7
Capacitance	Contact	pF - typ.	0.3	0.2	0.3
Temperature	Operating	$^{\circ}\text{C}$	-40 to +105	-20 to +105	-40 to +105
	Storage	$^{\circ}\text{C}$	-65 to +105	-65 to +105	-65 to +105
Time	Operate	ms - max.	1.0	1.0	3.0
	Release	ms - max.	1.0	1.0	3.0
Shock	11ms 1/2 sine	G - max.	100	100	50
Vibration	50-2000 Hz	G - max.	30	30	30

CUSTOMER OPTIONS - Sensitivity

TABLE 2									
		Sensitivity Options:- Activate Distances are approximate using Hamlin 57105 actuator as illustrated Switch AT before modification							
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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	Activate Distance d (in) mm
1 Normally Open		12-18	(.394)	17-23	(.354)	22-28	(.315)	27-33	(.295)
2 High Voltage			10.0		9.0		8.0		7.5
4 Normally Closed		15-20	(.354)	20-25	(.335)	25-30	(.295)		
			9.0		8.5		7.5		

ORDERING INFORMATION

59105	-	X	-	X	-	00	-	0
Series 59105								
Switch Type		Table 1						
Sensitivity		Table 2						

Notes 1) Connectors match Molex® SL connector or equivalent. Purchase housing and pins from connector supplier. Assembly required.

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