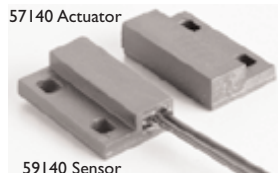


59140 Mini Flange Mount Features and Benefits



Features

- 2 part magnetically operated proximity sensor
- Compact size requires only 3.2cm² board space
- Case design allows screw down or adhesive mounting
- Customer defined sensitivity
- Choice of cable length and connector

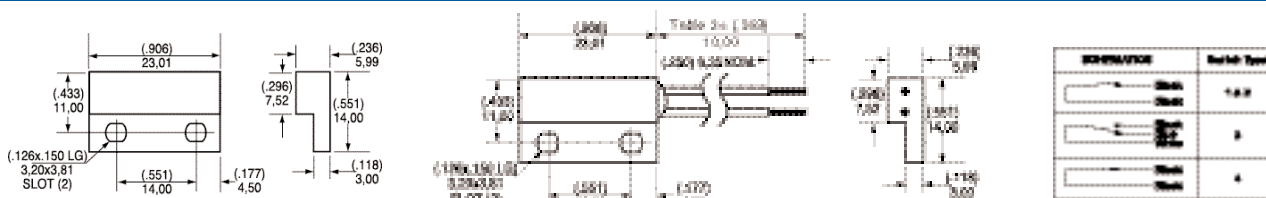
Benefits

- 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



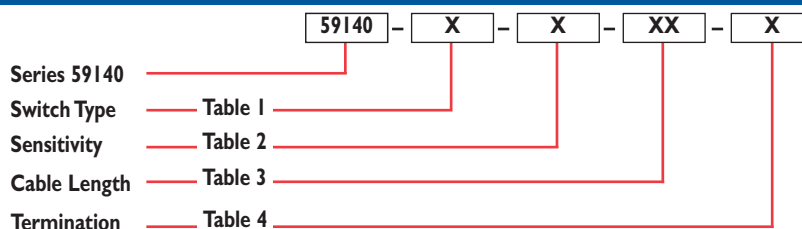
CUSTOMER OPTIONS - Switching Specifications

TABLE I			Normally Open	Normally Open High Voltage	Change Over	Normally Closed
Contact Type						
Switch Type			1	2	3	4
Voltage	Power	Watt - max.	10	10	5	5
	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	pF - typ.	0.3	0.2	0.3	0.3
Temperature	Operating	$^{\circ}\text{C}$	-40 to +105	-20 to +105	-40 to +105	-40 to +105
	Storage	$^{\circ}\text{C}$	-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	11 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 57140 actuator as illustrated Switch AT before modification						Cable Type:- 24 AWG 7/32 PVC 105°C UL1430/UL1569				Termination Options:-			
						Standard Lengths				SELECT OPTION CABLE LENGTH (in) mm			
Select Option S T U V						SELECT OPTION CABLE LENGTH (in) mm				SELECT OPTION DESCRIPTION (2 WIRE VERSIONS ILLUSTRATED)			
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						01 (3.94) 100				A Tinned leads			
1 Normally Open 12-18 (.453) 17-23 (.374) 22-28 (.315) 27-33 (.295)						02 (11.81) 300				B Crimped terminals			
2 High Voltage 11.5 9.5 8.0 7.5						03 (19.69) 500				C 6.35mm fastons			
3 Change Over 15-20 (4.13) 20-25 (.354) 25-30 (.295)						04 (29.53) 750				D AMP MTE 2.54mm pitch			
4 Normally Closed 10.5 9.0 7.5						05 (39.37) 1000				E JST XHP 2.5mm pitch			

ORDERING INFORMATION



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