

59160 Surface Mount Features and Benefits

57050 Actuator



59160 Sensor

Features

- 2 part magnetically operated proximity sensor
- Surface mount technology on to printed circuit board
- J Foot & Gull Wing options
- Tape and reel option (consult Hamlin)
- Moulded stand-off to allow board washing
- Customer defined sensitivity
- Sensor solder reflow capable

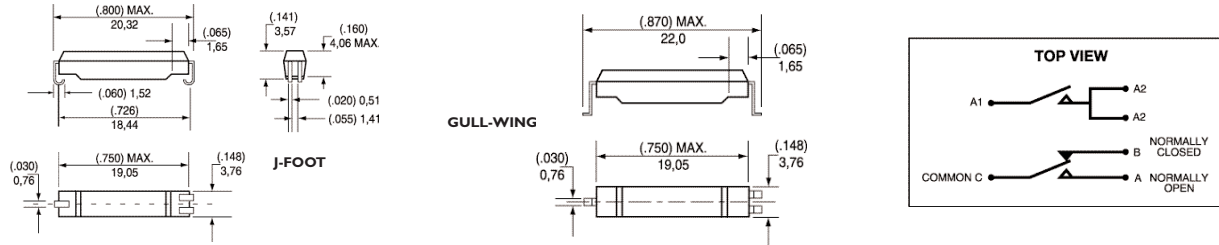
Benefits

- Suitable for pick and place
- 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
- Door switch

DIMENSIONS (in) mm



CUSTOMER OPTIONS - Switching Specifications

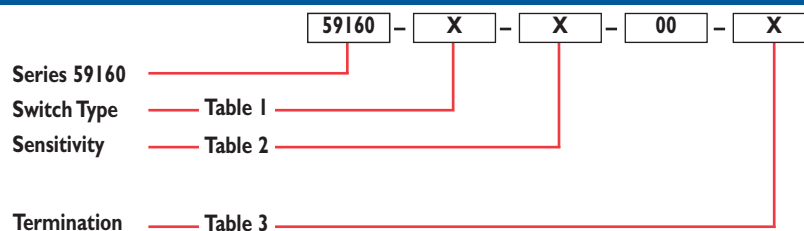
TABLE 1 Contact Type			Normally Open	Change Over
Switch Type			1	3
Power	Power	Watt - max.	10	5
	Voltage	Vdc - max.	200	175
Current	Switching	Vdc - min.	250	200
	Carry	A - max.	0.5	0.25
Resistance	Contact, Initial	Ω - max.	1.2	1.5
	Insulation	Ω - min.	0.2	0.2
Capacitance	Contact	pF - typ.	10 ¹⁰	10 ⁹
	Temperature		0.3	0.3
Time	Operating	°C	-40 to +105	-40 to +105
	Storage	°C	-65 to +105	-65 to +105
Shock	Operate	ms - max.	1.0	3.0
	Release	ms - max.	1.0	3.0
Vibration	1 ms 1/2 sine	G - max.	100	50
	50-2000 Hz	G - max.	30	30

CUSTOMER OPTIONS - Sensitivity and Termination Specification

TABLE 2 Sensitivity Options:- Activate Distances are approximate using Hamlin 57050 actuator as illustrated Switch AT before modification						
Switch Option	S		T		U	
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
1 Normally Open	10-15	(.157) 4.0	15-20	(.098) 2.5	20-25	(.079) 2.0
3 Change Over	15-20	(.118) 3.0	20-25	(.079) 2.0	25-30	(.059) 1.5

TABLE 3 Termination Options:-	
SELECT OPTION	DESCRIPTION
A	J Foot bulk packed
B	J Foot tape and reel
C	Gull Wing bulk packed
D	Gull Wing tape and reel

ORDERING INFORMATION



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