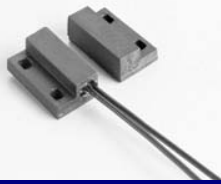


File E61760(N) 59140 and 59141 MINI FLANGE MOUNT SERIES



Features

- Magnetically operated position sensor
- Matching actuator available
- Compact size requires only 3.2cm² board space
- Screw down or adhesive mounting
- Customer defined sensitivity
- Choice of cable length
- Leads can exit from LH or RH side

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		SCHEMATICS	
<p>Actuator</p>	<p>Sensor (2 wire versions)</p>	<p>Switch Types 1 & 2</p> <p>Switch Type 3</p> <p>Switch Type 4</p>	
		<p>Note: 59140 shown 59141 leads exit opposite side</p>	

CUSTOMER OPTIONS - Switching Specifications

TABLE 1 Switch Type		Select Option	1	2	3	4
		Contact Type	Normally Open	Normally Open High V.	Change Over	Normally Closed
Contact Rating	Power	Watts - 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	Ohms - max.	0.2	0.2	0.2	0.2
	Insulation	Ohms - min.	10 ¹⁰	10 ¹⁰	10 ⁹	10 ⁹
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 - max.	1.0	1.0	3.0	3.0
	Release	ms - max.	1.0	1.0	3.0	3.0
Capacitance	Contact	pF - typ.	0.3	0.2	0.3	0.3
Shock	11ms ½ sine	G - max.	100	100	50	50
Vibration	50-2000 Hz.	G - max.	30	30	30	30

CUSTOMER OPTIONS - Sensitivity, Cable Length and Termination Specifications

TABLE 2 Sensitivity		TABLE 3 Cable Length		TABLE 4 Termination (2 wire versions shown)														
<p>Activate distances (d) are approximate using Hamlin 57140-000 actuator as illustrated.</p> <p>Switch AT before modification</p>		<p>(Cable 24AWG 7/32 PVC 105°C UL1430 / UL1569)</p> <table border="1"> <thead> <tr> <th>Select Option</th> <th>Length(in)mm</th> </tr> </thead> <tbody> <tr> <td>02</td> <td>(11,81) 300</td> </tr> <tr> <td>05</td> <td>(39,37)1,000</td> </tr> </tbody> </table>		Select Option	Length(in)mm	02	(11,81) 300	05	(39,37)1,000	<table border="1"> <thead> <tr> <th>Select Option</th> <th>Description</th> <th>Diagram</th> </tr> </thead> <tbody> <tr> <td>A or F</td> <td>Tinned or untinned</td> <td></td> </tr> </tbody> </table>			Select Option	Description	Diagram	A or F	Tinned or untinned	
Select Option	Length(in)mm																	
02	(11,81) 300																	
05	(39,37)1,000																	
Select Option	Description	Diagram																
A or F	Tinned or untinned																	
Select Option																		
Switch Type																		
	S	T	U	V														
	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	12-18	(.453)	17-23	(.374)	22-28	(.315)												
2	11.5		9.5		8.0													
3	15-20	(.413)	20-25	(.354)	25-30	(.295)												
4	10.5		9.0		7.5													

ORDERING INFORMATION

Series 59140/59141 — **59140/59141** — **X** **X** **XX** **X**

Switch Type — Table 1 (1, 2, 3 or 4)

Sensitivity — Table 2 (S, T, U or V)

Cable Length — Table 3 (02 or 05)

Termination — Table 4 (A or F)

Mouser Electronics

Authorized Distributor

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Littelfuse:

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[59140-2-V-02-A](#) [59140-4-U-02-A](#) [59140-1-U-02-A](#) [59140-3-S-02-F](#) [59140-1-T-02-A](#) [59140-3-U-02-A](#) [59140-3-U-02-F](#)
[57140-000](#) [59140-3-T-02-F](#) [59140-4-S-02-A](#) [59140-1-S-02-A](#) [59140-4-T-02-F](#) [59140-2-U-02-A](#) [59140-3-S-02-A](#)
[59140-4-T-02-A](#) [59140-2-V-02-F](#) [59140-3-T-02-A](#) [59140-2-T-02-F](#) [59140-4-U-02-F](#) [59140-1-U-02-F](#) [59140-1-T-02-F](#)
[59140-1-V-02-A](#) [59140-1-V-02-F](#) [59140-3-S-05-A](#) [59140-1-T-05-A](#) [59140-1-T-05-F](#) [59140-1-S-05-F](#) [59140-1-S-05-](#)
[A](#) [59140-1-U-05-A](#) [59140-2-U-05-F](#) [59140-2-S-02-A](#) [59140-2-T-05-A](#) [59140-1-V-05-F](#) [59140-2-V-05-A](#) [59140-4-U-](#)
[05-F](#) [59141-1-S-02-A](#) [59140-2-S-05-A](#) [59140-2-S-02-F](#) [59140-3-T-05-A](#) [59140-3-S-05-F](#) [59140-4-S-05-A](#) [59140-3-](#)
[U-05-F](#) [59140-3-T-05-F](#) [59140-4-T-05-A](#) [59140-2-T-05-F](#) [59140-1-V-05-A](#) [59140-3-U-05-A](#) [59140-2-S-05-F](#) [59140-](#)
[2-U-05-A](#) [59140-2-V-05-F](#) [59140-4-S-05-F](#) [59140-1-U-05-F](#) [59140-4-U-05-A](#) [59141-1-S-02-F](#) [59141-1-T-02-F](#)