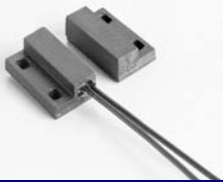


**File E61760(N) 59140 and 59141 MINI FLANGE MOUNT SERIES**



**Features**

- Magnetically operated position sensor
- Matching actuator available
- Compact size requires only 3.2cm<sup>2</sup> board space
- Screw down or adhesive mounting
- Customer defined sensitivity
- Choice of cable length and connector
- 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><b>Actuator</b></p>	<p><b>Sensor (2 wire versions)</b></p>	<p><b>Switch Types 1 &amp; 2</b></p> <p>Black Black</p>	<p><b>Switch Type 3</b></p> <p>Black Blue White</p>
<p>Note: 59140 shown 59141 leads exit opposite side</p>		<p><b>Switch Type 4</b></p> <p>Black Black</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 <sup>10</sup>	10 <sup>10</sup>	10 <sup>9</sup>	10 <sup>9</sup>
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>Select Option</p> <p>Switch Type</p>	S		T		U		V		<p>Select Option</p> <p>Description</p> <p>Diagram</p>
		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	12-18	(.453)	17-23	(.374)	22-28	(.315)	27-33	(.295)	C	6.35mm fastons
2	11.5	9.5	9.5	8.0	8.0	7.5	7.5	7.5	D	AMP MTE 2.54mm
3	15-20	(.413)	20-25	(.354)	25-30	(.295)	7.5	7.5	E	JST XHP 2.5mm
4	10.5	9.0	9.0	7.5	7.5	7.5	7.5	7.5	F	Untinned leads

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 (01, 02, 03, 04 or 05)				
Termination	Table 4 (A, C, D, E or F)				