

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 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>Actuator</p> | <p>Sensor (2 wire versions)</p> | <p>Switch Types 1 & 2</p> <p>Black Black</p> | <p>Switch Type 3</p> <p>Black Blue White</p> |
| <p>Note: 59140 shown 59141 leads exit opposite side</p> | | <p>Switch Type 4</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 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>01</td><td>(3.94) 100</td></tr> <tr><td>02</td><td>(11.81) 300</td></tr> <tr><td>03</td><td>(19.69) 500</td></tr> <tr><td>04</td><td>(29.53) 750</td></tr> <tr><td>05</td><td>(39.37) 1,000</td></tr> </tbody> </table> | | Select Option | Length(in)mm | 01 | (3.94) 100 | 02 | (11.81) 300 | 03 | (19.69) 500 | 04 | (29.53) 750 | 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</td><td>Tinned leads</td><td></td></tr> <tr><td>C</td><td>6.35mm fastons</td><td></td></tr> <tr><td>D</td><td>AMP MTE 2.54mm</td><td></td></tr> <tr><td>E</td><td>JST XHP 2.5mm</td><td></td></tr> <tr><td>F</td><td>Untinned leads</td><td></td></tr> </tbody> </table> | | Select Option | Description | Diagram | A | Tinned leads | | C | 6.35mm fastons | | D | AMP MTE 2.54mm | | E | JST XHP 2.5mm | | F | Untinned leads | |
| Select Option | Length(in)mm | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 01 | (3.94) 100 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 02 | (11.81) 300 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 03 | (19.69) 500 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 04 | (29.53) 750 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 05 | (39.37) 1,000 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Select Option | Description | Diagram | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| A | Tinned leads | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| C | 6.35mm fastons | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| D | AMP MTE 2.54mm | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| E | JST XHP 2.5mm | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| F | Untinned leads | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| <table border="1"> <thead> <tr> <th>Select Option</th> <th>S</th> <th>T</th> <th>U</th> <th>V</th> </tr> </thead> <tbody> <tr> <td>Switch Type</td> <td>Pull-In AT Range</td> <td>Activate Distance (d) (in)mm</td> <td>Pull-In AT Range</td> <td>Activate Distance (d) (in)mm</td> </tr> <tr> <td>1</td> <td>12-18</td> <td>(.453)</td> <td>22-28</td> <td>(.315)</td> </tr> <tr> <td>2</td> <td>11.5</td> <td>17-23</td> <td>9.5</td> <td>27-33</td> </tr> <tr> <td>3</td> <td>(.374)</td> <td>20-25</td> <td>8.0</td> <td>(.295)</td> </tr> <tr> <td>4</td> <td>15-20</td> <td>10.5</td> <td>9.0</td> <td>7.5</td> </tr> </tbody> </table> | Select Option | S | T | U | V | Switch Type | Pull-In AT Range | Activate Distance (d) (in)mm | Pull-In AT Range | Activate Distance (d) (in)mm | 1 | 12-18 | (.453) | 22-28 | (.315) | 2 | 11.5 | 17-23 | 9.5 | 27-33 | 3 | (.374) | 20-25 | 8.0 | (.295) | 4 | 15-20 | 10.5 | 9.0 | 7.5 | <p>ORDERING INFORMATION</p> <p>Series 59140/59141 — 59140/59141 — X X XX X</p> <p>Switch Type — Table 1 (1, 2, 3 or 4)</p> <p>Sensitivity — Table 2 (S, T, U or V)</p> <p>Cable Length — Table 3 (01, 02, 03, 04 or 05)</p> <p>Termination — Table 4 (A, C, D, E or F)</p> | | | | |
| Select Option | S | T | U | V | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Switch Type | Pull-In AT Range | Activate Distance (d) (in)mm | Pull-In AT Range | Activate Distance (d) (in)mm | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 1 | 12-18 | (.453) | 22-28 | (.315) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 2 | 11.5 | 17-23 | 9.5 | 27-33 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 3 | (.374) | 20-25 | 8.0 | (.295) | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 4 | 15-20 | 10.5 | 9.0 | 7.5 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |



Компания «ЭлектроПласт» предлагает заключение долгосрочных отношений при поставках импортных электронных компонентов на взаимовыгодных условиях!

Наши преимущества:

- Оперативные поставки широкого спектра электронных компонентов отечественного и импортного производства напрямую от производителей и с крупнейших мировых складов;
- Поставка более 17-ти миллионов наименований электронных компонентов;
- Поставка сложных, дефицитных, либо снятых с производства позиций;
- Оперативные сроки поставки под заказ (от 5 рабочих дней);
- Экспресс доставка в любую точку России;
- Техническая поддержка проекта, помощь в подборе аналогов, поставка прототипов;
- Система менеджмента качества сертифицирована по Международному стандарту ISO 9001;
- Лицензия ФСБ на осуществление работ с использованием сведений, составляющих государственную тайну;
- Поставка специализированных компонентов (Xilinx, Altera, Analog Devices, Intersil, Interpoint, Microsemi, Aeroflex, Peregrine, Syfer, Eurofarad, Texas Instrument, Miteq, Cobham, E2V, MA-COM, Hittite, Mini-Circuits, General Dynamics и др.);

Помимо этого, одним из направлений компании «ЭлектроПласт» является направление «Источники питания». Мы предлагаем Вам помощь Конструкторского отдела:

- Подбор оптимального решения, техническое обоснование при выборе компонента;
- Подбор аналогов;
- Консультации по применению компонента;
- Поставка образцов и прототипов;
- Техническая поддержка проекта;
- Защита от снятия компонента с производства.



Как с нами связаться

Телефон: 8 (812) 309 58 32 (многоканальный)

Факс: 8 (812) 320-02-42

Электронная почта: org@eplast1.ru

Адрес: 198099, г. Санкт-Петербург, ул. Калинина, дом 2, корпус 4, литера А.