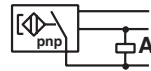


- > Suitable for all cylinder ranges with magnetic piston
- > LED indicator as standard
- > Switches can be mounted flush with the delivered special adaptor
- > CE verified
- > Resistance, reliable switching with a very fast response time
- > Particularly suited for use in high levels of vibration



### Technical features

**Operation:**  
SPC/130159 (PNP) open collector output with LED (yellow)

**Switching voltage (U<sub>b</sub>):**  
10 ... 30 V d.c.

**Switching voltage output:**  
U<sub>b</sub> - 2 V

**Inducted voltage:**  
0,5 V

**Switching current (see graph):**  
100 mA max.

**Switching power:**  
3 W max.

**Response time:**  
< 0,5 ms

**Operating frequency:**  
1 kHz

**Protection rating (EN 60529):**  
IP 67

**Cable type:**  
PUR 3 x 0,14

**Cable length:**  
5m

**Bend radius:**  
15 mm for cable in fixed installation  
30 mm for cable in movable installation

**Electromagnetic compatibility according to:**  
EN 60947-5-2

**Operating temperature:**  
-40 ... +80°C (-40 ... 176°F)

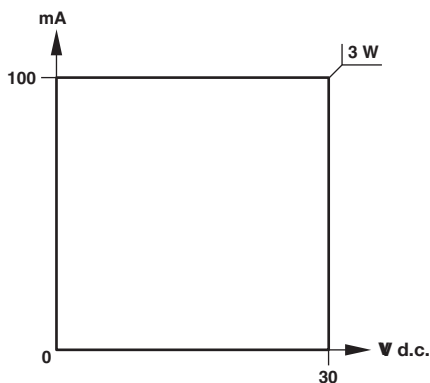
**Materials:**  
Body: plastic

### Technical data - Solid state

| Symbol             | Voltage (V d.c.) | Current maximum (mA) | Function | Operating temperature (°C) | LED | Protection class | Plug | Cable length (m) | Cable type   | Weight (g) | Model      |
|--------------------|------------------|----------------------|----------|----------------------------|-----|------------------|------|------------------|--------------|------------|------------|
| + BN<br>- BU<br>BK | 10 ... 30        | 100                  | PNP      | -40 ... +80                | •   | IP67             | —    | 5                | PUR 3 x 0,14 | 37         | SPC/130159 |

Color code: BK = black, BN = brown, BU = blue

### Switching current and switching voltage



### Mounting brackets for magnetic switches

Cylinder with external tie rods RA/80\*000/M, RA/8000/M, KA/8000/M, RM/900/M



Roundline cylinder RM/55401/M



Roundline cylinder KM/55001/M, VSM/55640/N2



Roundline cylinder R./57\*00/M



Roundline cylinder < 25 mm stroke RM/8000/M, KM/8000/M RM/28000/M



Roundline cylinder > 25 mm stroke RM/8000/M, KM/8000/M RM/28000/M



#### Mounting brackets

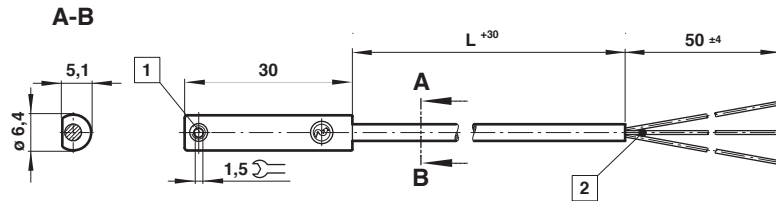


| Cylinder Ø (mm) |           | Cylinder Model |              | Cylinder Ø (mm) |              | Cylinder Model |              | Cylinder Ø (mm) |              | Cylinder Model |              |
|-----------------|-----------|----------------|--------------|-----------------|--------------|----------------|--------------|-----------------|--------------|----------------|--------------|
| 32 ... 200      | QM/27/2/1 | 32             | QM/33/432/22 | 32              | QM/33/432/22 | 10             | QM/33/010/22 | 10              | QM/33/010/22 | 10             | QM/33/010/23 |
|                 |           | 40             | QM/33/440/22 | 40              | QM/33/440/22 | 12             | QM/33/012/22 | 12              | QM/33/012/22 | 12             | QM/33/016/23 |
|                 |           | 50             | QM/33/450/22 | 50              | QM/33/450/22 | 16             | QM/33/016/22 | 16              | QM/33/016/22 | 16             | QM/33/016/23 |
|                 |           | 63             | QM/33/463/22 | 63              | QM/33/463/22 | 20             | QM/33/020/22 | 20              | QM/33/020/22 | 20             | QM/33/020/23 |
|                 |           | 80             | QM/33/480/22 | 80              | QM/33/080/22 | 25             | QM/33/025/22 | 25              | QM/33/025/22 | 25             | QM/33/025/23 |
|                 |           | 100            | QM/33/100/22 | 100             | QM/33/100/22 | 32             | QM/33/032/22 |                 |              |                |              |
|                 |           |                |              | 125             | QM/33/125/22 | 40             | QM/33/040/22 |                 |              |                |              |
|                 |           |                |              |                 |              | 50             | QM/33/050/22 |                 |              |                |              |
|                 |           |                |              |                 |              | 63             | QM/33/063/22 |                 |              |                |              |

Dimensions see relevant cylinder data sheets.

### Dimensions

Cable length L = 5 m



- 1 Fixing screw
- 2 Color code: BK = black; BN = brown; BU = blue

### Warning

These products are intended for use in industrial compressed air systems only. Do not use these products where pressures and temperatures can exceed those listed under »**Technical features/data**«.

Before using these products with fluids other than those specified, for non-industrial applications, life-support systems or other applications not within published specifications, consult IMI Precision Engineering, Norgren GmbH.

Through misuse, age, or malfunction, components used in fluid power systems can fail in various modes. The system designer is warned to consider the failure modes of all component parts used in fluid power systems and to provide adequate safeguards to prevent personal injury or damage to equipment in the event of such failure.

System designers must provide a warning to end users in the system instructional manual if protection against a failure mode cannot be adequately provided.

System designers and end users are cautioned to review specific warnings found in instruction sheets packed and shipped with these products.