

# PSK

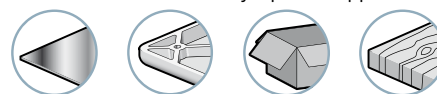
## Mini Vacuum Switch



The PSK series adjustable vacuum switches, due to a compact and ultra-light design, enable installation close to the suction cups for reduced response times. PSKs are ideal for applications requiring only a simple "object gripped" signal, and offer an economical and effective solution for applications with one vacuum generator per suction cup.

- Simple installation, plug-in port or thread-in fitting
- Compact size : 26 x 10 x 10.4 mm
- Weight: 8.3 g

Industry-specific applications



### Specifications

<b>Model</b>	<b>PSK 100</b>
<b>Setting pressure range</b>	0 to 100% vacuum (0~-101.3 kPa)
<b>Withstand pressure</b>	0.6 MPa
<b>Fluid</b>	Air, Non-corrosive/Non-flammable gas
<b>Power supply voltage</b>	10.8 to 30 VCC
<b>Load current</b>	80mA max.
<b>Internal voltage drop</b>	≤ 0.8 V
<b>Current consumption</b>	10 mA max.
<b>Sensor type</b>	PNP
<b>Output short circuit protection</b>	Yes
<b>Setting method</b>	Adjusting by VR
<b>Response time</b>	Approx. 1ms
<b>Repeatability</b>	≤ +/-1% F/S/
<b>Hysteresis</b>	3% F.S. max.
<b>Indicator</b>	Red LED turns ON
<b>Enclosure</b>	IP 40
<b>Temperature characteristic</b>	≤ +/-3% F/S/ of detected pressure (77°F) at temp. Range of 32~122°F
<b>Ambient temp. range</b>	Operation: 0 ~ 60°C (32 ~ 140°F), Storage: -20 ~ 70°C (-4 ~ 158°F) (No condensation or freezing)
<b>Ambient humidity range</b>	Operation/Storage: 35 85% RH (No condensation)
<b>Vibration</b>	Total amplitude 1.5 mm, 10Hz-55Hz-10Hz scan for 1 minute, two hours each direction of X, Y and Z
<b>Shock</b>	980m/s <sup>2</sup> (100G), 3 times each in direction of X, Y and Z
<b>vacuum connection</b>	Push-in tube or thread-in
<b>Electrical connection</b>	M8 connection 3-pin (Cable L:150 mm)
<b>Weight</b>	Approx. 8.3 g (with M8, 3-pin male connector)

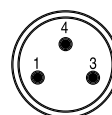
### Advantages

- Simple installation:  
Plug-in port for push-to-connect fittings
- Compact size:  
Extremely compact size to fit the most confined areas

### Additional Information

#### Electrical connections

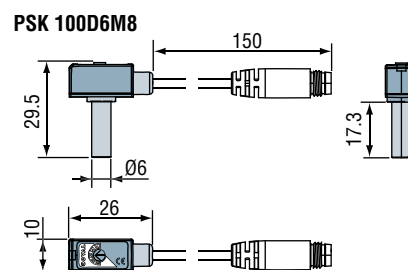
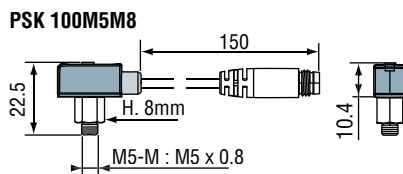
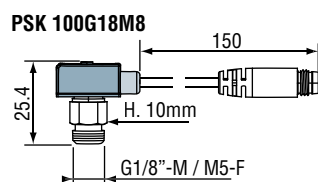
- M8, 3-pin male connector



- 1 = + (Brown)
- 2 = - (Blue)
- 4 = out (Black)

- Ø6mm stem for one-touch push fitting, Male M5 or G1/8"-M.

### Dimensions



For all orders, please specify:  
**Model + Measuring range + Vacuum connection + Connection**  
 Example: PSK100G18M8

1: I	2: Measuring range	3: Vacuum connection	4: Connection
PSK	100 0 to 100% vacuum	D6 Ø 6 mm G18 G 1/8"-M, M5-F M5 M5 male	M8 M8, 3-pin male connector