

PSK

Mini Vacuum Switch

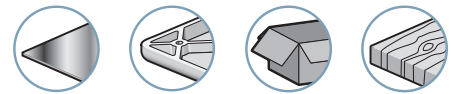


The PSK series adjustable vacuum switches, due to a compact and ultra-light design, enable installation close to the suction cups for reduced response times.

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

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

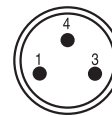
Advantages

- 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

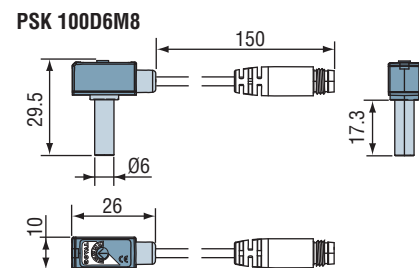
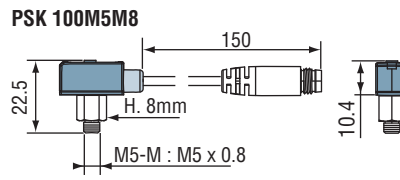
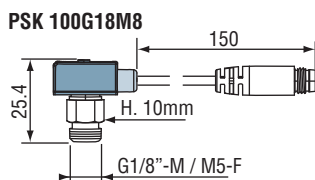
- M8, 3-pin male connector



- 1 = + (Brown)
- 3 = - (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