〈RoHS Compliance〉

PMP-S10HT

■ FEATURES

- Contactless inclination sensor for ±10° angle, using Hall effect IC.
- Compact and low cost.
- Long useful life

Electrical Specifications

Electrical Tilt Angle	±10°
Tilt Sensitivity	0.02° MAX.
Output Range	10~90%Vin
Index Point	50%±3%
***Zero-Based Lin.**	±1%FS*
Input Voltage	DC5±0.5V
Load Resistance	10kΩ MIN.
Supply Current	10mA MAX.
Insulation Resistance	DC50V 100MΩ MIN.
Temp. Characteristics (-20℃~80℃) Based Temp. 25℃	0° Position ±1° ±10° Position ±1.5°

*over ±20° angle, linearity is 1.5° FS

Mechanical Specifications

Mechanical Angle	±12° MIN.
Response Time	Approx. 0.3 sec. (Damper Oil 200cst)
Weight	Approx. 35g

Enviromental Specifications

Vibration	70m/s² 3axis 2hours
Shock	1,000m/s² 6axis 3times
EMS	100V/m, 200M~1GHz
Operating Temp.	-20~80℃
Storage Temp.	-40~80℃
ESD(Case~Each Terminal)	±4kV
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IP Level	IP65 (without Terminals)

OPTIONS

- Electrical tilt angle: ±5°, ±20°, ±30°

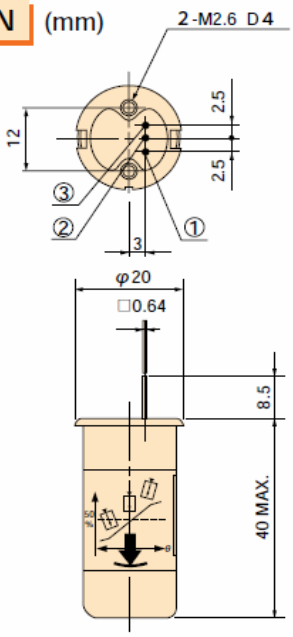
Temp. Characteristics of special Elect. angle

Elect. angle	PMP-S5HT	PMP-S20HT	PMP-S30HT
At 0°	1.0°	2.5°	2.5°
At ±X°	1.5°	2.5°	3.0°

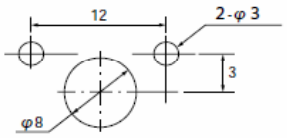
X°=max. tilt angle

Temp. Range : -20~80℃ (Ref. Temp.25℃)

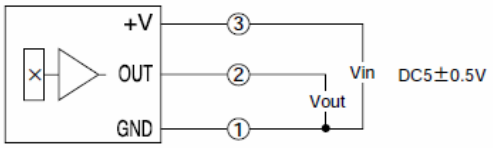
■ DIMENSION (mm)



■ MOUNTING

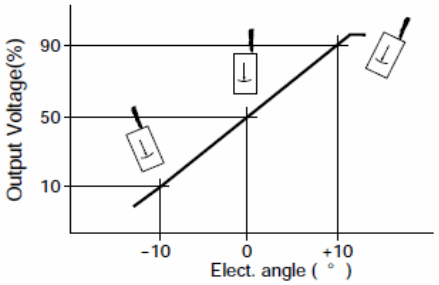


■ SCHEMATIC



• 1,2,3 indicate Terminal No.

■ OUTPUT CHARACTERISTICS



HANDLING INSTRUCTION

- This product may be damaged by extreme shock such as dropping on the floor and storing sideways.
- This product may be influenced from external magnetic field of apparatus which generates a magnetic field.
- Use this sensor in the place where is protected from ESD.
- Silicom damper oil is filled in the housing.
- Response time is step response time at room temperature.