

<RoHS Compliance>

PMP-10HTZL

FEATURES

- Contactless inclination sensor, set 2pieces of PMP-S10HT in an alminum die-casting housing
- X and Y axis inclination sensing capability
- Dripproof: IP65
- Long useful life

Electrical Specifications

Electrical Tilt Angle	$\pm 10^\circ$
Tilt Sensitivity	0.02° MAX.
Output Range	10~90%Vin
Index Point	50%±4%
Zero-Based* Lin.	$\pm 1\%FS^*$
Input Voltage	DC5±0.5V
Load Resistance	10kΩ MIN.
Supply Current	20mA MAX.
Insulation Resistance	DC50V 100MΩ MIN.
Temp. Characteristics (-20°C~80°C)	0° Position $\pm 1^\circ$
Based Temp. 25°C	$\pm 10^\circ$ Position $\pm 1.5^\circ$

*over $\pm 20^\circ$ angle, linearity is 1.5° FS

Mechanical Specifications

Mechanical Angle	$\pm 12^\circ$ MIN.
Response Time	Approx. 0.5 sec. (Damper Oil 1,000cst)
Weight	Approx. 230g

Enviromental Specifications

Vibration	70m/s ² 3axis 2hours
Shock	1,000m/s ² 6axis 3times
EMS	100V/m, 200M~1GHz
Operating Temp.	-20~80°C
Storage Temp.	-40~80°C
ESD(Case~Each Terminal)	$\pm 4kV$
ESD(Each Terminal)	$\pm 4kV$
IP Level	IP65

OPTIONS

- Electrical Tilt Angle: $\pm 5^\circ$ 、 $\pm 20^\circ$ 、 $\pm 30^\circ$
- Available with different electrical angel on X and Y axis
- Available with X-axis only

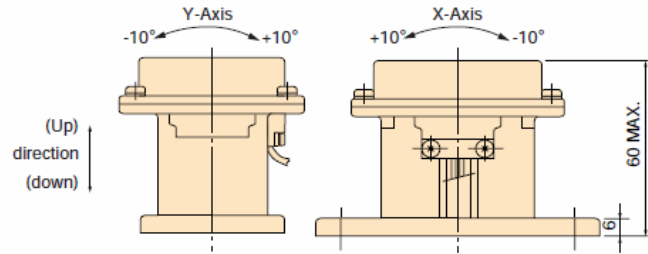
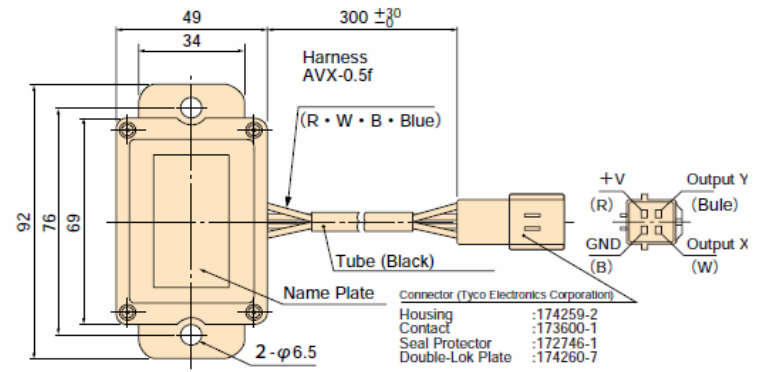
Temp. Characteristics of special Elect. angle

Elect. angle	PMP-S5HT	PMP-S20HT	PMP-S30HT
At 0°	1.0°	2.5°	2.5°
At $\pm X^\circ$	1.5°	2.5°	3.0°

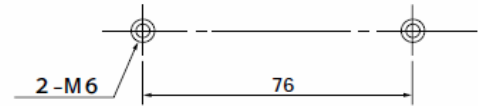
X°=max. tilt angle

Temp. Range : -20~80°C (Ref. Temp.25°C)

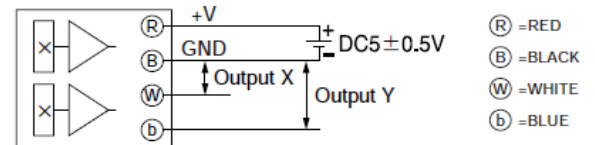
DIMENSION (mm)



MOUNTING

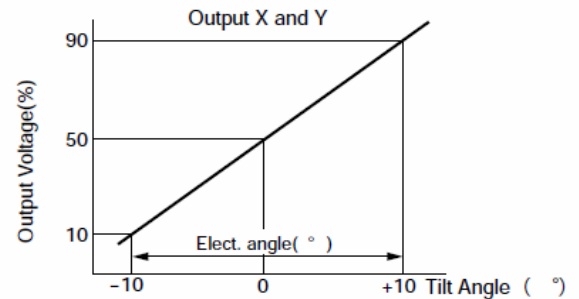


SCHEMATIC



Red, White, Black and blue indicate harness colors

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.