

Inclinometer PEI-S102-1



- Sensors for tilt measuring
- One axis
- Ranges from $\pm 5^\circ$ to 70°
- Linear output vs. tilt
- High accuracy
- High resolution capability
- Robust construction
- Standard length of cable 2 m

Specification

Nonlinearity in F.R.*.....max 0,3%
 Resolution in F.R.*.....min 0,03%
 Hysteresis in F.R.*.....max 0,05%
 Response time*.....< 1 s
 Cross Axis Error*.....max 1% up to F.R.
 Operating temperature.....-40~80°C
 Storage temperature.....-45~90°C
 Temperature error in range 0~60°C.....max 300 ppm / °C
 Temperature error in range -40~80°C.....max 500 ppm / °C
 Output loading (U output).....min 500 kOhm
 Output loading (I output).....max 200 Ohm
 Protection with cable gland/connector.....IP66/IP64
 Power supply voltage (for type U1 and I).....9~30 VDC
 (for type U3).....10~30 VDC
 (for type U2 and U4).....15~30 VDC
 Power consumption.....< 40 mA
 Constant acceleration resistance.....50g (max)
 Shock acceleration resistance.....500g/0,5msec (max)
 Vibration resistance.....20g RMS (max)
 Geometric un align*.....max 1% from F.R.
 Weight (without cable).....appr. 350 g

* For temperature $20 \pm 4^\circ\text{C}$

Order information

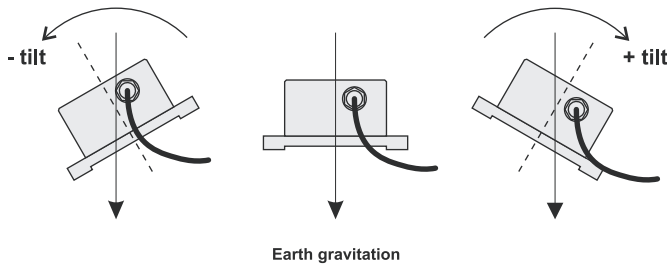
PEI-S102-1-**xxx**-**X**-**X**

Full range of tilt measuring (F.R.)					
10	$\pm 5^\circ$	50	$\pm 25^\circ$	90	$\pm 45^\circ$
20	$\pm 10^\circ$	60	$\pm 30^\circ$	100	$\pm 50^\circ$
30	$\pm 15^\circ$	70	$\pm 35^\circ$	120	$\pm 60^\circ$
40	$\pm 20^\circ$	80	$\pm 40^\circ$	140	$\pm 70^\circ$

Output range	
U1	0~5V
U2	0~10V
U3	$\pm 5V$
U4	$\pm 10V$
I	4~20mA
C	custom

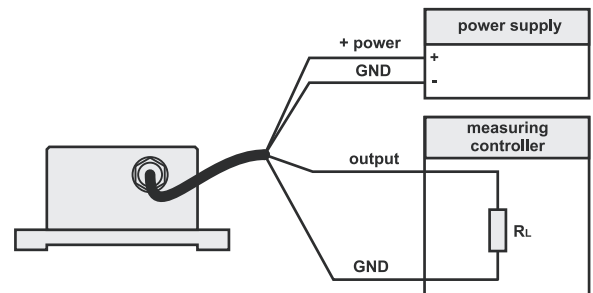
Cable connection	
1	Connection with cable gland (option 1)
2	Connection with cable gland (option 2)
3	Connection with cable connector (option 3)
4	Connection with cable connector (option 4)

Output vs. tilt



Connection circuit

1	black	GND
2	white	output
3	red	+ power
7	blue	GND



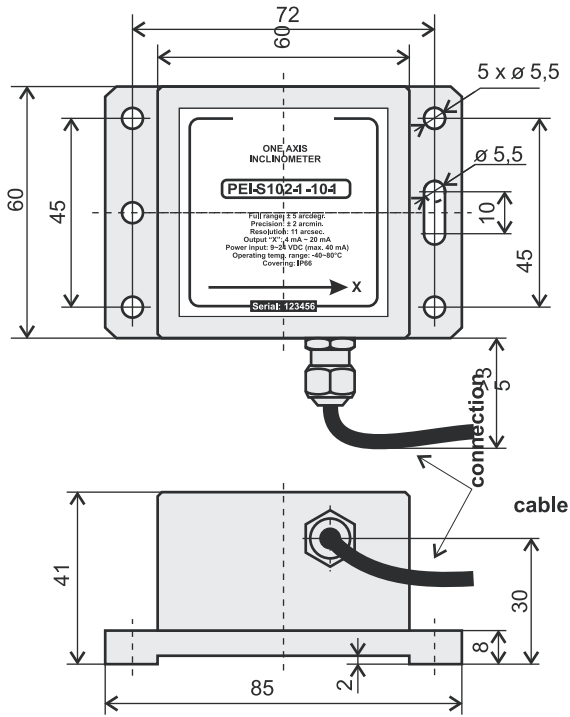
Sensor must be placed in horizontal position !



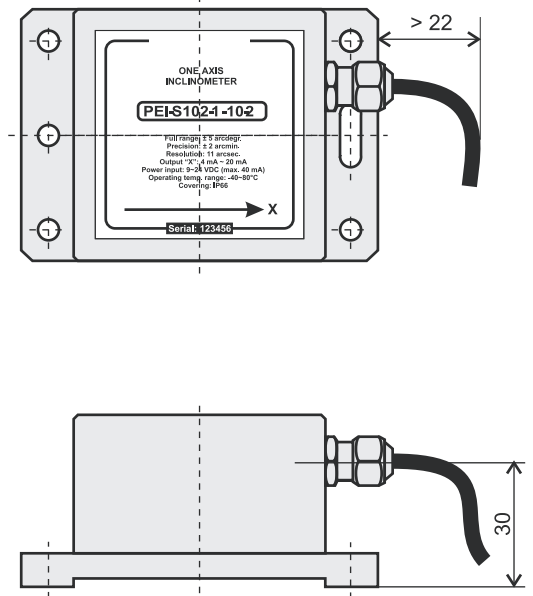
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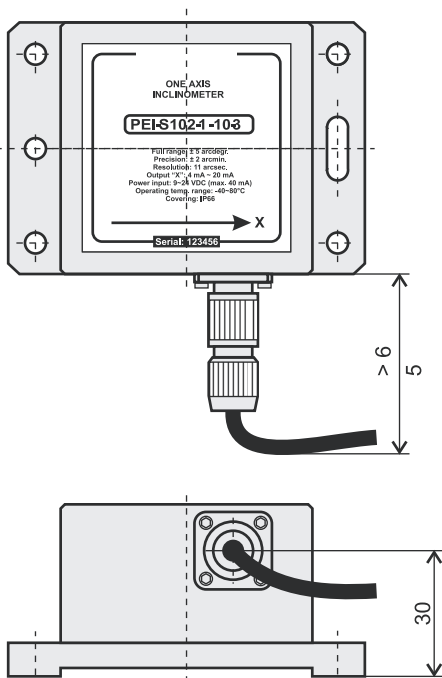
Cover drawing with cable gland (option 1)



Cover drawing with cable gland (option 2)



Cover drawing with cable connector (option 3)



Cover drawing with cable connector (option 4)

