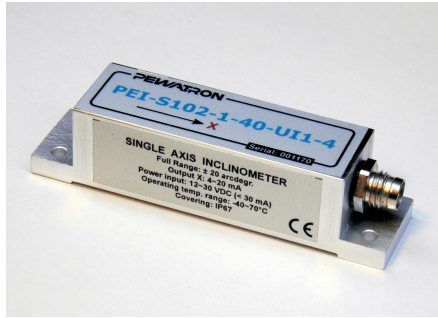




Inclinometer PEI-S102-1

- Sensors for tilt measuring
 - One axis
- Ranges from $\pm 5^\circ$ to $\pm 90^\circ$
 - Universal dual output (U & I)
- High accuracy
 - High resolution capability
- IP67 protection
 - Micromachined technology

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 sensitivity*	max 1% up to F.R.
Operating temperature	-40~70°C
Storage temperature	-45~90°C
Temperature error in range 0~40°C	max 300 ppm / °C
Temperature error in range -40~80°C	max 500 ppm / °C
Output loading (U output)	min 50 kOhm
Output loading (I output)	max 200 Ohm***
Protection	IP67
Power supply voltage	12~30 VDC
Power consumption	< 30 mA
Constant acceleration resistance	50g (max)
Shock acceleration resistance	500g/0,5msec (max)
Vibration resistance	20g RMS (max)
Input Axis Misalignment**	max 0.5% from F.R.
Weight (without cable)	max. 60 g.

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

** Relative to the base of the inclinometer

*** Max. loading is dependent of power voltage

Order information

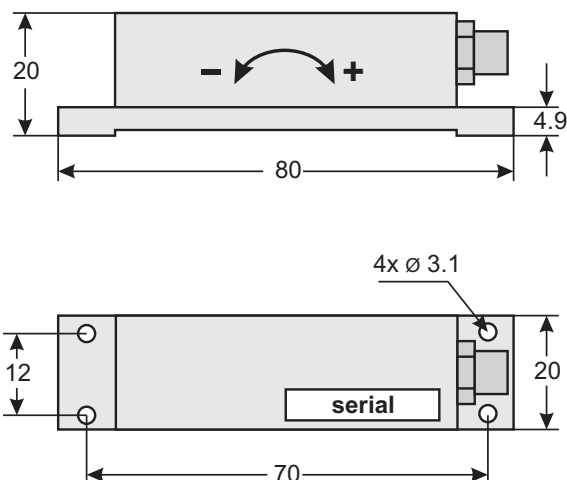
PEI-S102-1-**xxx**-**x**-**x**

Full range of tilt measuring (F.R.)					
10	$\pm 5^\circ$	60	$\pm 30^\circ$	120	$\pm 60^\circ$
20	$\pm 10^\circ$	70	$\pm 35^\circ$	140	$\pm 70^\circ$
30	$\pm 15^\circ$	80	$\pm 40^\circ$	160	$\pm 80^\circ$
40	$\pm 20^\circ$	90	$\pm 45^\circ$	180	$\pm 90^\circ$
50	$\pm 25^\circ$	100	$\pm 50^\circ$		

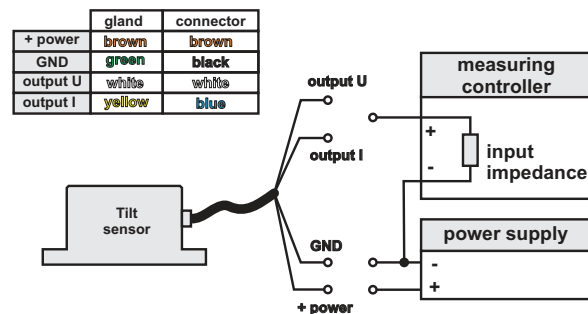
Output range	
UI1	0~10V / 4~20mA
UI2	0~10V / 0~20mA
UI3	0~5V / 4~20mA
UI4	0~5V / 0~20mA

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

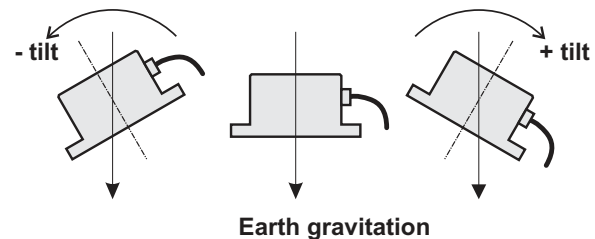
Dimension



Connection circuit



Output vs. tilt



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