



### General description

Inclinometer for harsh environments with a high damping

- 12VDC & 24VDC power supply
- Range +/-05°
- Standard current output 4...20mA
- Shielded cable
- Response time ~1s
- IP68

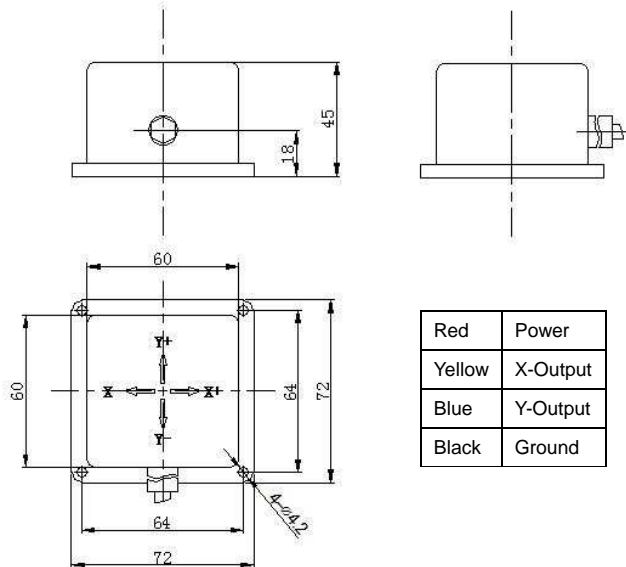
### Technical datas:

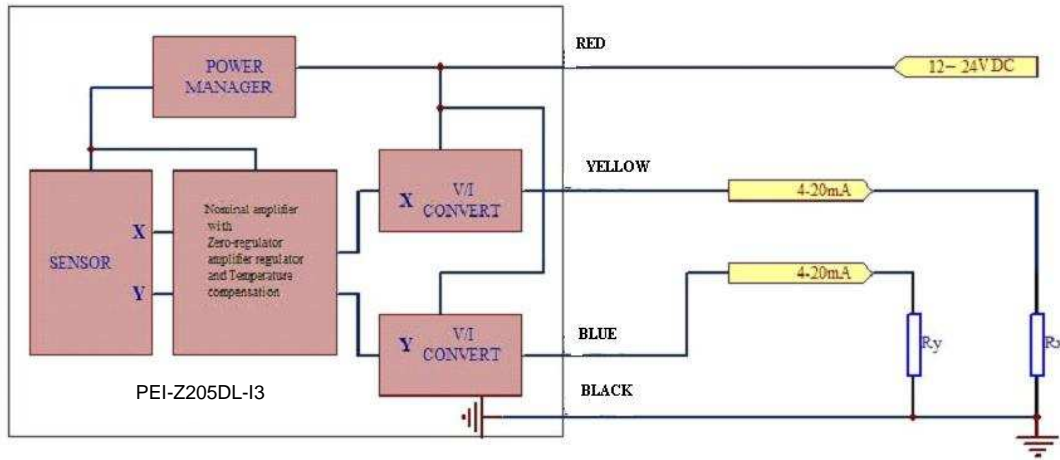
Item	Parameter	Unit	Remark
Measuring range	+05° ~ -05°	Degree	Two-axis
Resolution	0.005	Degree	
Accuracy	0.05	Degree	@ 25±4°C
Repeatability	< 0.05	Degree	
Non-linearity	+/-0.5	%FS	@ 25±4°C

### Environmental specifications

Item	Parameter	Unit	Remark
Voltage	10 to 30	VDC	
Operating current	<50	mA	
Operating temperature	-40 ~ +85	°C	
Storage temperature	-45 ~ 125	°C	
Temp. Drift	0.01	%°C	-40°C to +85°C
Max. load resistance	500 Ohm		@ 24Vdc
Size	72*72*45	mm	

### Connection definition and size:





**Tilt angle and output current (theory value) relevant relationship diagram:**

Tilt angle	Output current	Tilt angle	Output current	Tilt angle	Output current
>+5°	4mA	+1.5°	9.6 mA	-2.5°	16 mA
+5.0°	4 mA	+1.0°	10.4 mA	-3.0°	16.8 mA
+4.5°	4.8 mA	+0.5°	11.2 mA	-3.5°	17.6 mA
+4.0°	5.6 mA	0°	12 mA	-4.0°	18.4 mA
+3.5°	6.4 mA	-0.5°	12.8 mA	-4.5°	19.2 mA
+3.0°	7.2 mA	-1.0°	13.6 mA	-5.0°	20 mA
+2.5°	8 mA	-1.5°	14.4 mA	<-5°	20 mA
+2.0°	8.8 mA	-2.0°	15.2 mA		

**Note:**

1) Max. load resistance = (supply voltage – 6V – voltage drop of output wire) / max output current

Example: supply voltage 12 V, output wire 100m, 2\*0.14mm<sup>2</sup>, max output current 20mA

Max. Load resistance = (12 – 6 – 0.6) / 0.02 = 270 Ω

**Specifications are subject to change without notice.**



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