

FNC INA 30 Series Analog Inclinometer

FNC INA 30
130C224V-R2



FNC INA 30
130C224V-
R350 CM3



FNC INA 30
130C224V-
R075 CA3



FNC INA 30
130C224V-
R120 CD3



Features

- $\pm 30^\circ$ measuring range
- 4 - 20 mA output
- High sensitivity : 0.03° (max)
- Easy installation
- IP67 protection
- Small and robust mechanical construction
- Compact design

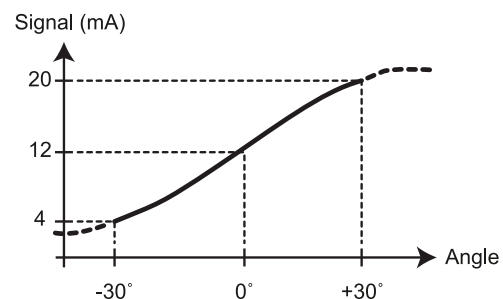
Technical Data - Mechanical Design

Dimensions	30x30 mm
Protection EN 60529	IP67
Max mechanical shock	3.500 g
Operating temperature	-40°C to $+85^\circ\text{C}$
Storage temperature	-40°C to $+125^\circ\text{C}$

Technical Data - Electrical Design

Voltage Supply	10 - 30 V dc
Output	4 - 20 mA
Current consumption (no load)	10 mA
Reverse polarity protection of the supply voltage	Yes
Sampling rate	400 Hz (20 ms)
Resolution	0.03° (TBD)
Accuracy at 25°C	$\pm 0.5^\circ$
Temperature coefficient	$\pm 0.02^\circ/\text{K}$ typ.
Measuring range	$\pm 30^\circ$
Limit frequency	0.1 ... 10 Hz
Output function	sinus curve
Over Voltage Protection	Yes
Short Circuit Protector	Yes

Pulse Diagram

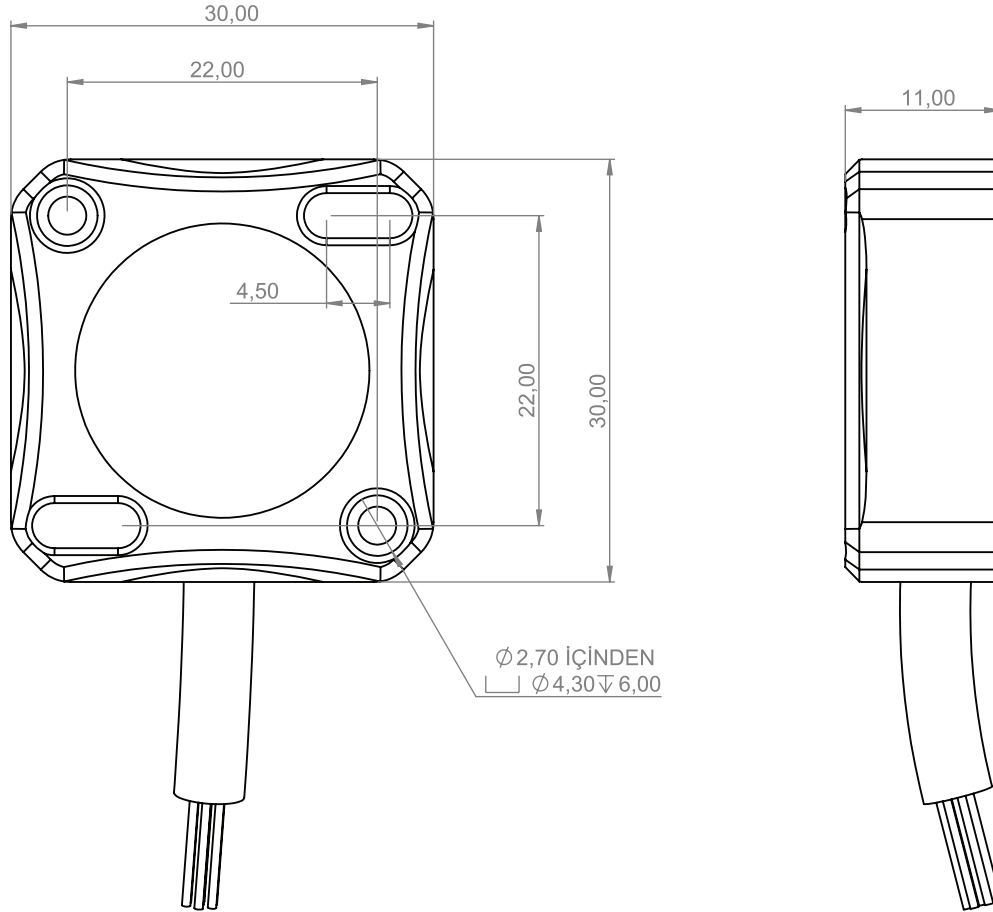


Inclinometer

Cable / Connector Wiring, Part Number

FNC INA 30 Series Analog Inclinometer

Mechanical Dimensions



Cable Connection

Pin	Color Pre-wired models only	Function
1	Brown	+VDC
2	Yellow	OUT
3	White	0V GND

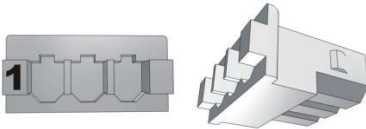
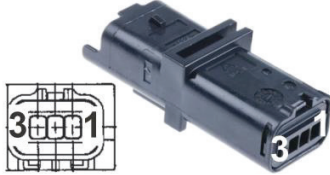
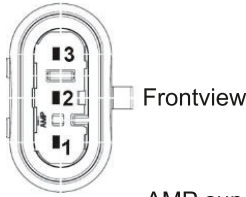
Inclinometer

Cable / Connector Wiring, Part Number



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Connector Connection

Function	CM3	CD3	CA3
+VDC	pin 1	pin 1	pin 1
OUT	pin 2	pin 2	pin 2
GND	pin 3	pin 3	pin 3
Connector	 Molex miniSPOX series 5264	 Delphi Sicma 211PL032S0049 Male	 AMP superseal

FNC INA 30 1 Axis Part Number

