Technical Data / Features

FNC INC 45 Series Canopen Inclinometer

Features

- **Compensated axis sensitivity**
- **High sensitivity : ±0.003°**
- **Ability to determine 0° point**
- **Easy installation**
- **IP67 protection**
- **Small and robust mechanical construction**
- **Compact design**

Technical data-electrical ratings

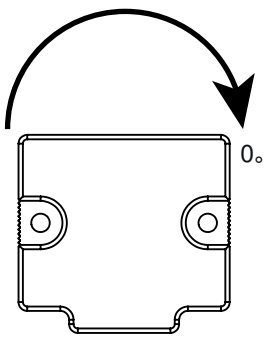
Voltage supply	8VDC to 32VDC
Interface	CAN specification 2.0 B
Baud rate	20, 50, 100, 125, 250, 500, 800, 1000 Kbit/s configurable (default 250)
Note address	1 to 127 user configurable (default 1)
Scanning	MEMS
Resolution	0.01°
System accuracy	±0.1°
Measuring range	0...360° 1 axis ±90 2 axis
System accuracy	±0.1°
Shock resistance	≤100 g, 6 ms
Vibration resistance	1.5 mm, 10...58 Hz ≤20 g, 58...2000 Hz
Interference immunity	DIN EN 61000-6-2
Emitted interference	DIN EN 61000-6-4
Approval	CE

Technical data-mechanical ratings

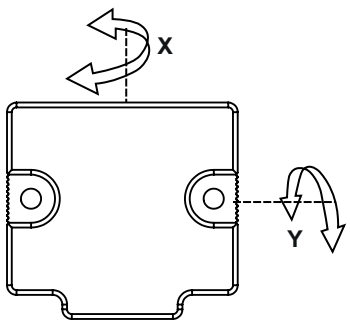
Montage hole dimensions	45x48 mm
Protection DIN EN 60529	IP54, IP65, IP67
Materials	Housing: Plastic
Operating temperature	-40...+80°C
Storage temperature	-40°C up to +80°C
Weight approx.	50 g

Axis Direction

1 Axis (360°)



2 Axis (±90°)



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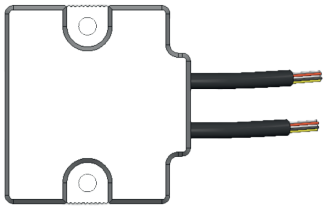
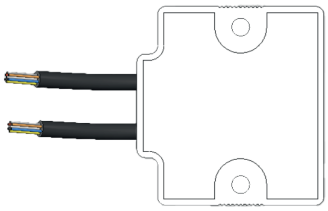
Sensor Orientation

Axis Y

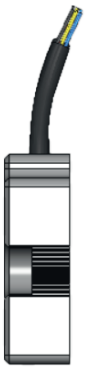


0°

90°

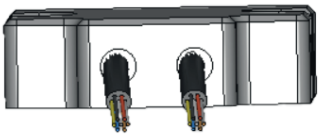


180°

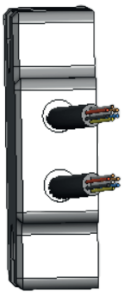


270°

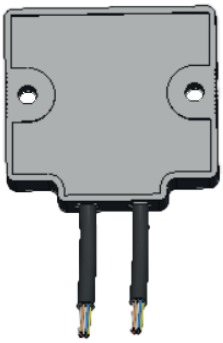
Axis X



0°



90°



180°

270°

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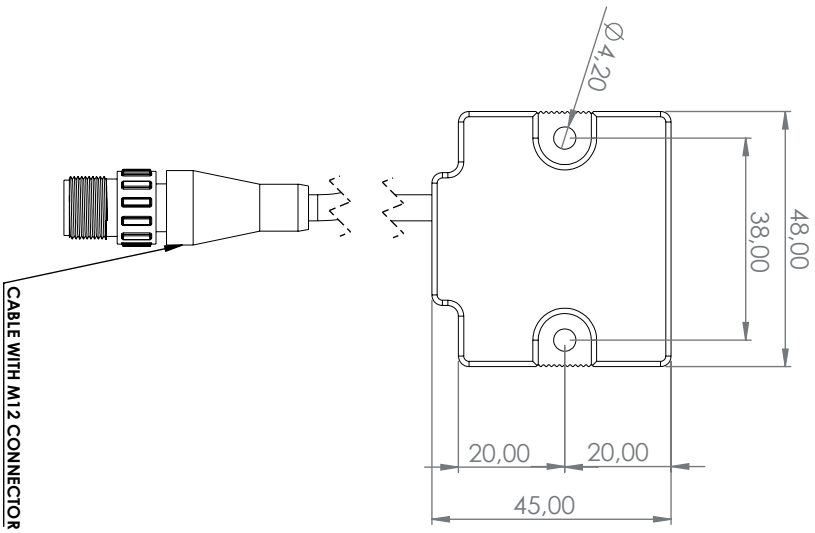
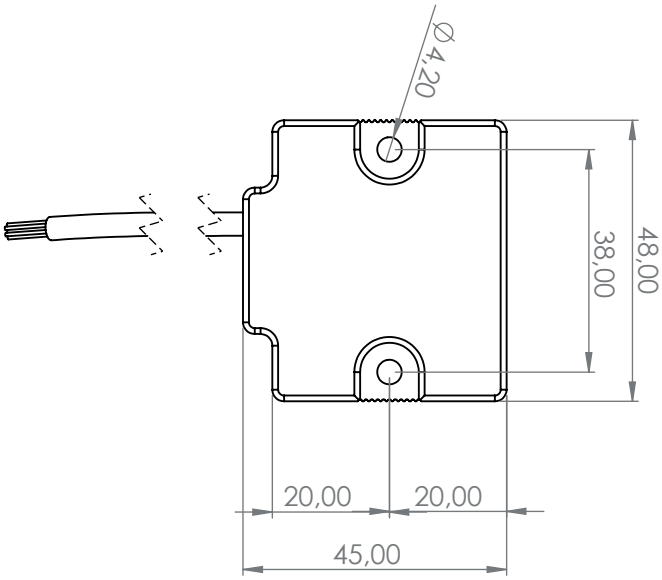
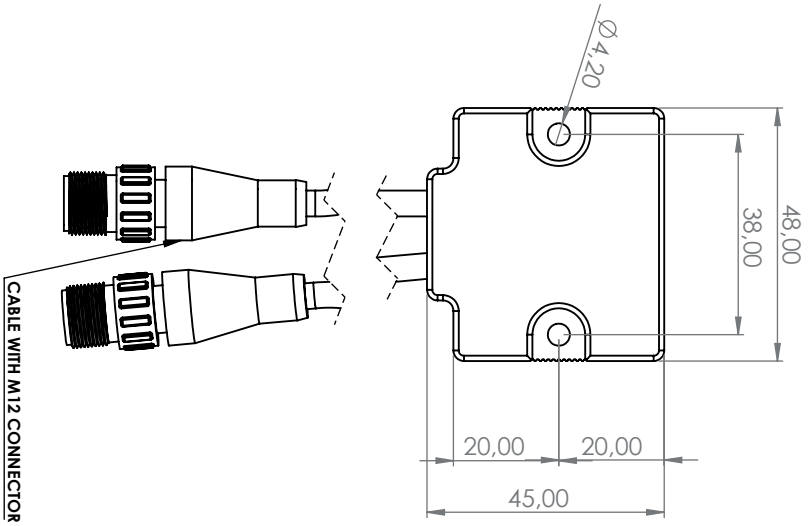
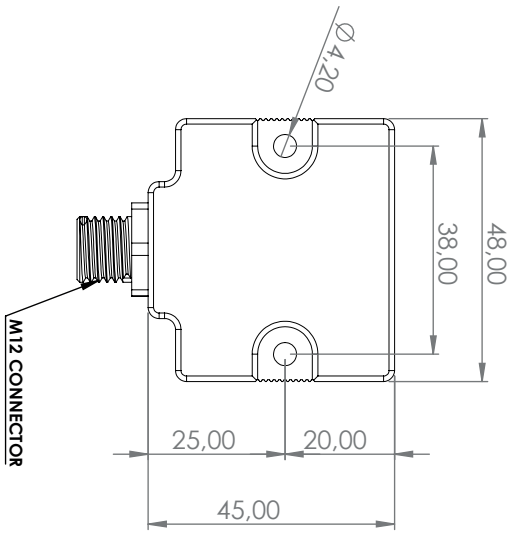
Mechanical Dimensions



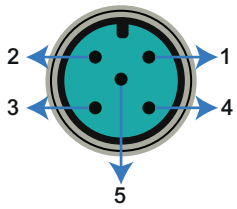




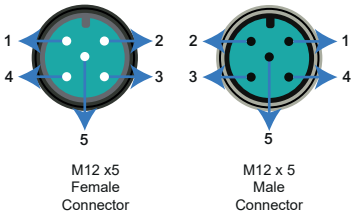


FNC INC 45 Series Canopen Inclinometer

M12 , 5- pin connection

Pin	Assignment	Description	Connector
1	0V GND	Ground referrend to +VDC	 M12 x 5 Male Connector
2	+VDC	Supply voltage	
3	CAN GND	CAN bus ground	
4	CAN_H	CAN bus signal (dominant high)	
5	CAN_L	CAN bus signal (dominant low)	

2xM12, 5- pin connection

Pin	Assignment	Description	Connector
1	CAN GND	CAN bus ground	 M12 x5 Female Connector M12 x 5 Male Connector
2	+VDC	Supply voltage	
3	0V GND	Ground referrend to +VDC	
4	CAN_H	CAN bus signal (dominant high)	
5	CAN_L	CAN bus signal (dominant low)	

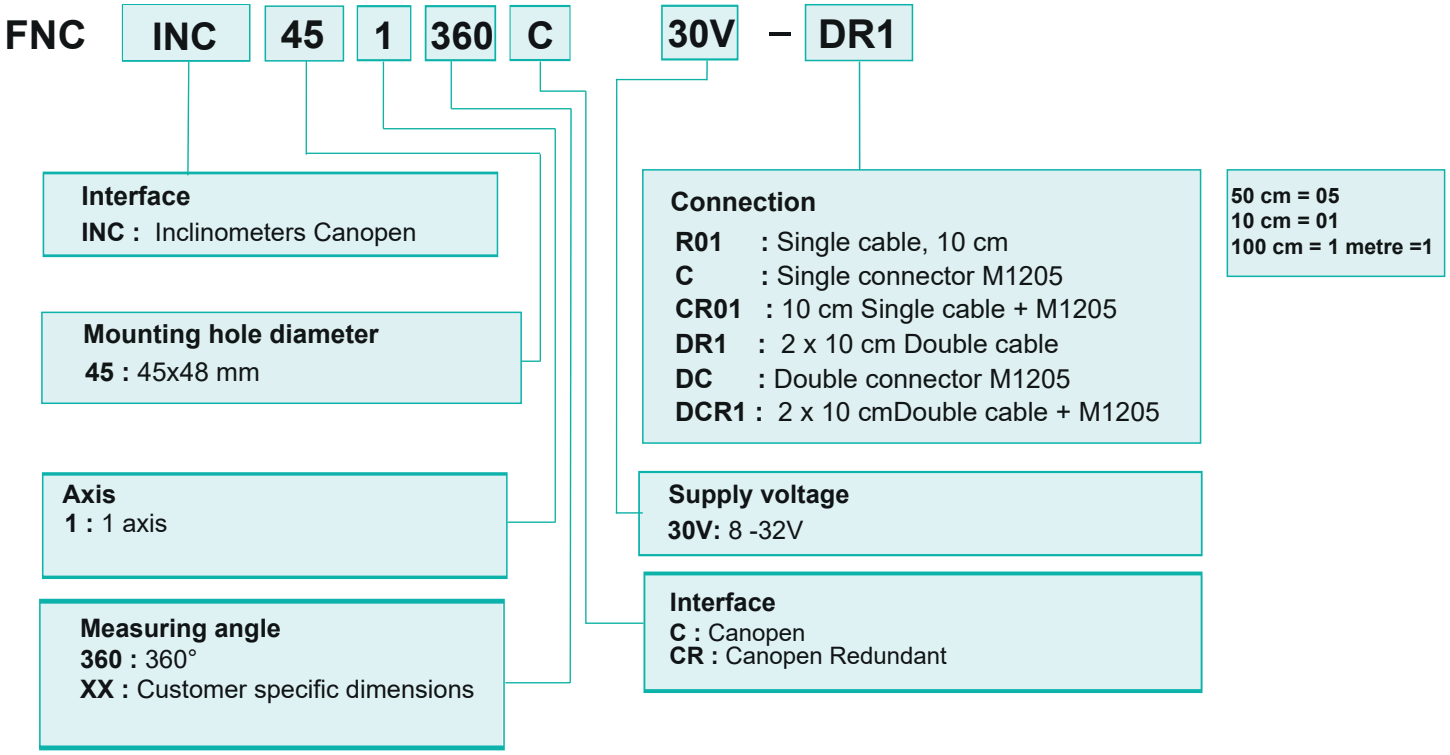
Cable

Color	Assignment	Description
White	0V GND	Ground referrend to +VDC
Brown	+VDC	Supply voltage
Gray	CAN GND	CAN bus ground
Green	CAN_H	CAN bus signal (dominant high)
Yellow	CAN_L	CAN bus signal (dominant low)

Note:
Available output configurations: Cable with M12 connector or M12 connector only.
Refer to the connection code in the part number for ordering.

FNC INC 45 Series Canopen Inclinometer

FNC INC 45 1 Axis Part Number



FNC INC 45 2 Axis Part Number