

FNC INC 47 Series Canopen Inclinomometer



Features

- Compensated axis sensitivity
- High sensitivity : $\pm 0.003^\circ$
- Ability to determine 0° point
- Easy installation
- IP67 protection
- Small and robust mechanical construction
- Compact design

Technical data-electrical ratings

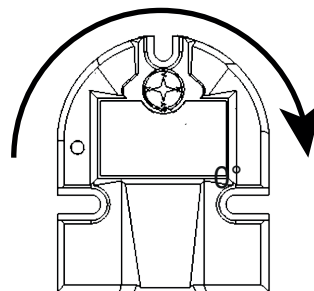
Voltage supply	8VDC to 32VDC
Interface	CAN specification 2.0 B
Baud rate	20, 50, 100, 125, 250, 500, 800, 1000 Kbit/s configurable (default 250)
Note address	1 to 127 user configurable (default 1)
Scanning	MEMS
Resolution	0.01°
System accuracy	$\pm 0.1^\circ$
Measuring range	$0 \dots 360^\circ$ 1 axis ± 90 2 axis
Resolution	0.01°
System accuracy	$\pm 0.1^\circ$
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

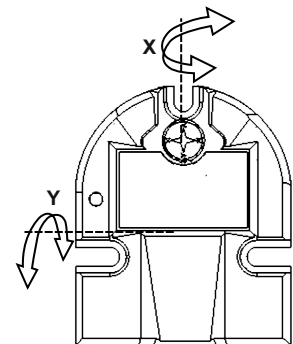
Montage hole dimensions	47x57 mm
Protection DIN EN 60529	IP54, IP65, IP67
Materials	Housing: Plastic
Operating temperature	$-40 \dots +80^\circ\text{C}$
Storage temperature	-40°C up to $+80^\circ\text{C}$
Weight approx.	50 g

Axis Direction

1 Axis (360°)

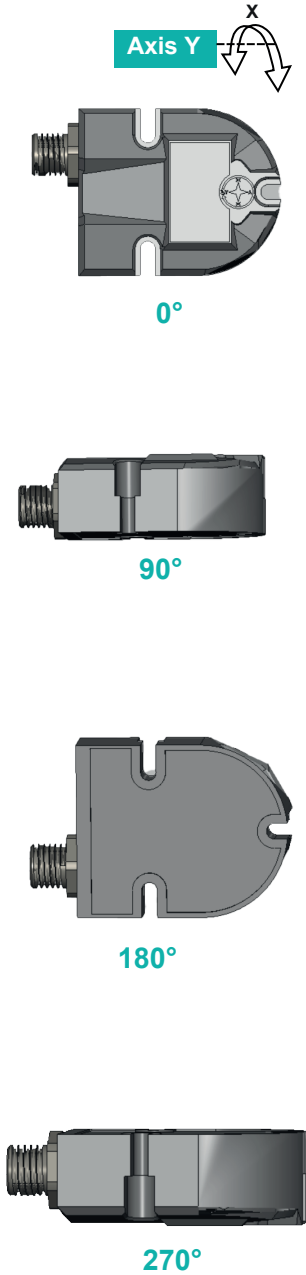
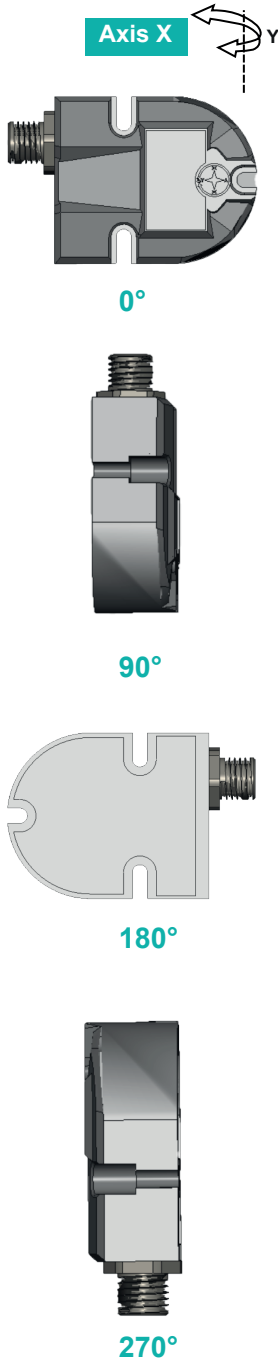


2 Axis ($\pm 90^\circ$)



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Sensor Orientation

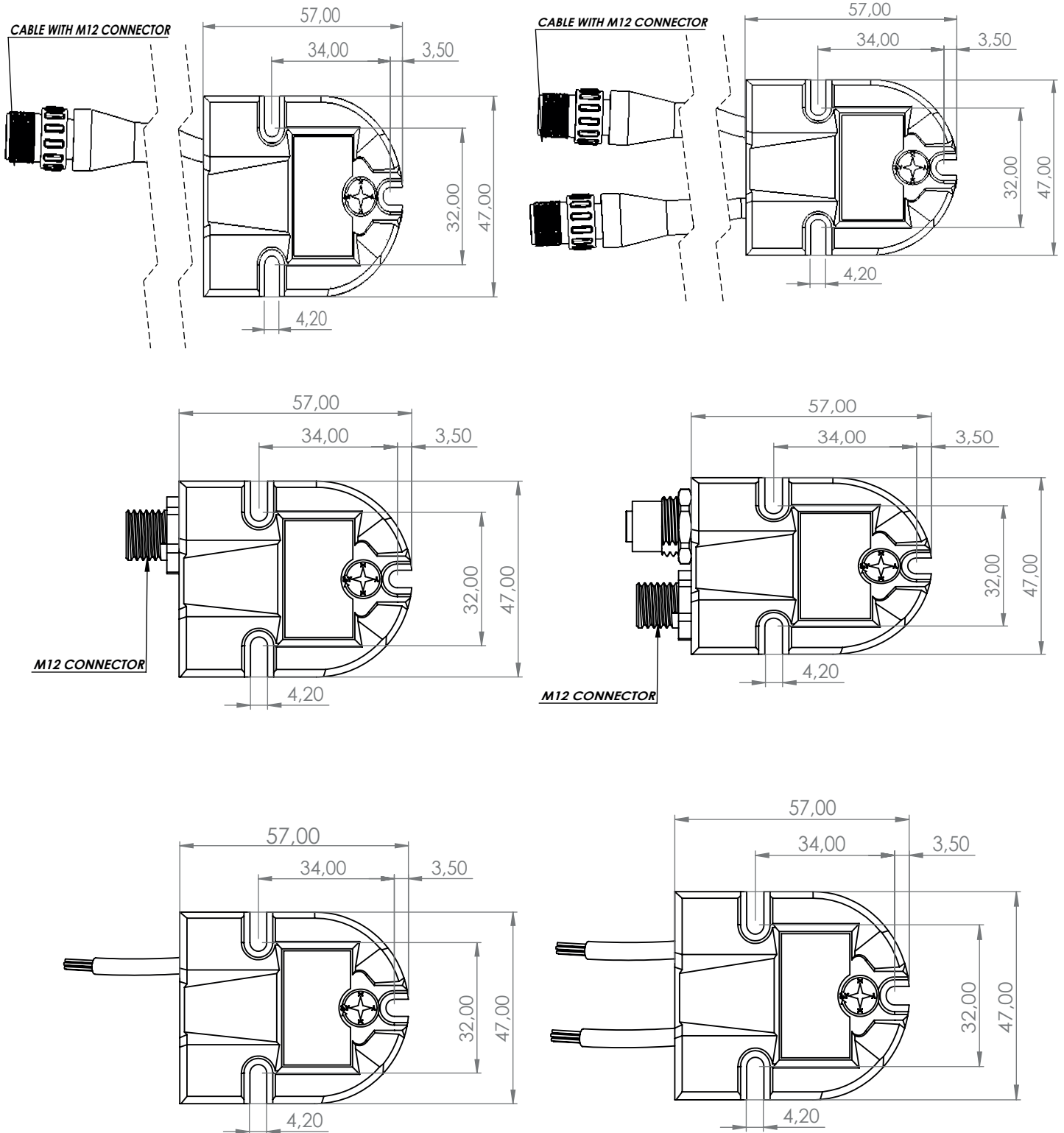


Inclinometers

Mechanical Dimensions

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Mechanical Dimensions



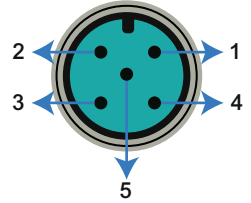
Inclinometers

Cable / Connector Wiring

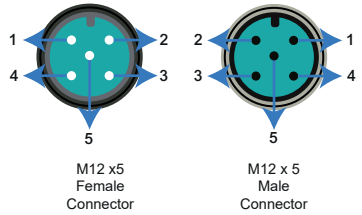
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Connection






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

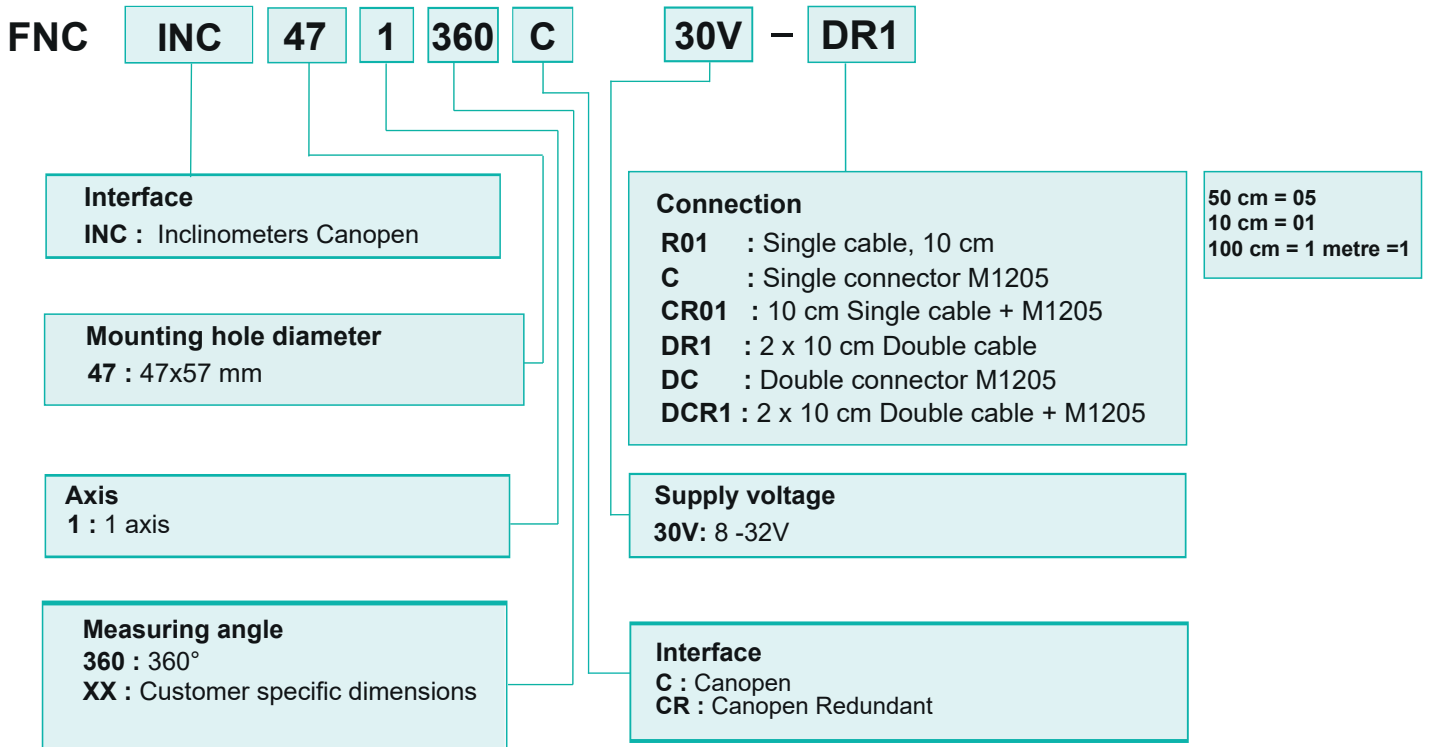
Color	Assignment	Description
 White	0V GND	Ground referrend to +VDC
 Brown	+VDC	Supply voltage
 Gray	CAN GND	CAN bus ground
 Green	CAN_H	CAN bus signal (dominant high)
 Yellow	CAN_L	CAN bus signal (dominant low)

Note:

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

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FNC INC 47 1 Axis Part Number



FNC INC 47 2 Axis Part Number

