



SERIE IN360C

INCLINOMETER



- High resolution (up to 0.001°)
- High accuracy (up to ±0.05°)
- Internal software diagnostic checks
- 1D and 2D inclination measurement
- Anti-Vibration programmable filter
- CANopen interface (DS301 DSP-410)
- Protection class IP67
- Very easy programming via CAN frames without additional tools



Inclinometer



1 axis



2 axes



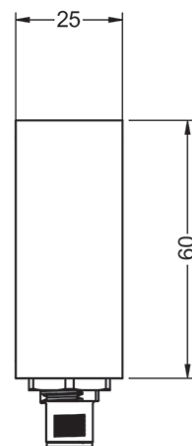
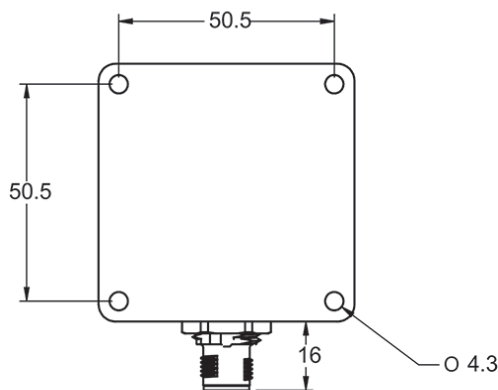
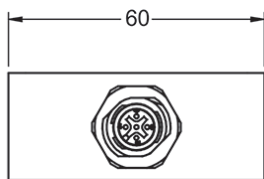
IP 67



Temperature range



Express Delivery



REFERENCE

Reference example: IN360C-C2

Serie	Interface	Number of axis / Measuring range	Connection	Special customer
IN360/IN360T	C -	☐	☐	☐ ☐ ☐ ☐
IN360. Standard IN360T. Temperature compensated	C. CANopen	C. Configurable: 1 axis (0...360°) or 2 axes (± 60°) (*)	2. Male M12 connector	

(*) Programmable settings instructions in IN360C reference manual, section 3.



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MECHANICAL SPECIFICATIONS

Materials	Housing: Anodized aluminium
Protection according to DIN EN 60529	IP67
Weight	0.18 Kg (0.15...0.22 Kg)
Storage temperature range	-40°C to +85°C
Operating temperature range	-40°C to +85°C
Vibration according to DIN EN 60068-2-6	40 m/s ² (8,2Hz...500Hz), 5 cycles, on 3 axes
Shock according to DIN EN 60068-2-27	3000 m/s ² (11ms)
Connection	5-pole M12 male

ELECTRICAL SPECIFICATIONS

Range of measurement	0 ... 360° or ±180° (1 axis) ±5 ... ±60° (2 axes)
Resolution (*) (user programmable)	0.01° (1...0.001°)
Supply Voltage range	12/24 V (7...40 V)
Current consumption	30 mA (max. 45 mA)
High accuracy	±0.05 ... ±0.10° (0 ... 360°) ±0.05 ... ±0.15° (±60°)
Sample Rate	550 S/s
Baud Rate (user programmable)	500 Kbit/s (10...1000 Kbit/s)
Temperature drift	±0.008°/°C (IN360C) ±0.002°/°C (IN360TC)

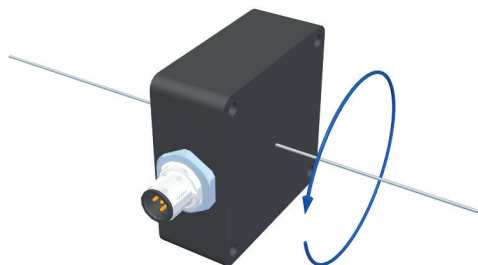
(*) 0.001° only if range is below ±30° in 2-axes mode.

CONNECTION

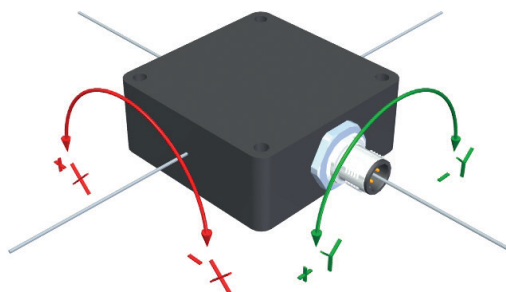


	M12 5p male CCW
SHIELD - Optional CAN shield	1
VDC - Power supply	2
GND - Ground	3
Data AH - CAN_H bus line (dominant high)	4
Data BL - CAN_L bus line (dominant low)	5

1 AXIS



2 AXES



Zero degrees on the single-axis model (vertical operation position) are obtained by keeping the connector to the left.

In order to get the high accuracy performances, we suggest to fix the inclinometer with 4 countersunk screws, placed at the edges of the 4 slot-holes.