



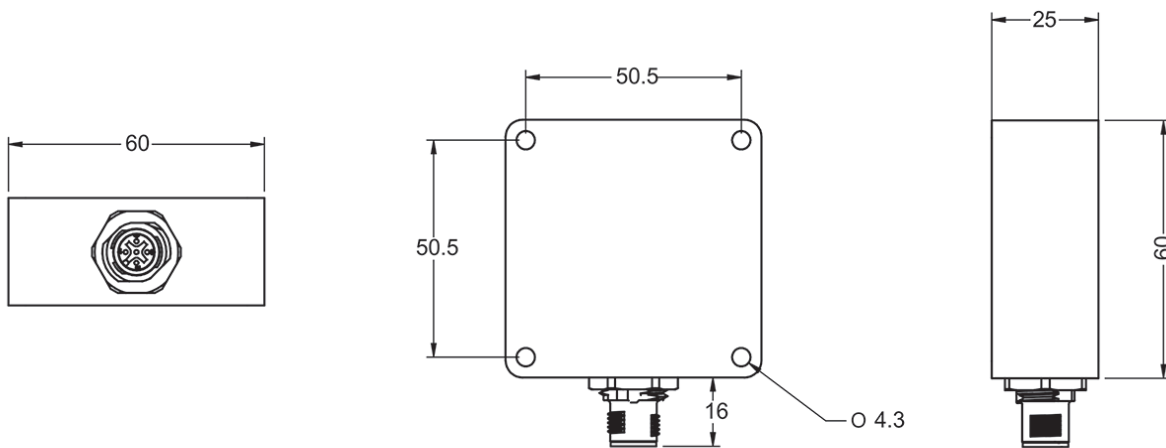
SERIE IN360C

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 -40°C | Express Delivery |



REFERENCE Reference example: IN360C-C2

| Serie | Interface | Number of axis / Measuring range | Connection | Special customer |
|--|------------|---|--------------------------|---|
| IN360/IN360T | C - | <input type="checkbox"/> | <input type="checkbox"/> | . <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/> |
| 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.



SERIE IN360C

INCLINOMETER



MECHANICAL SPECIFICATIONS

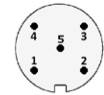
| | |
|---|--|
| Materials | Housing: Anodized aluminium |
| Protection according to DIN EN 60529 | IP67 |
| Weight | 180 g (150...220 g) |
| Storage temperature range | -40° to +85°C |
| Operating temperature range | -40° to +85°C |
| Vibration according to DIN EN 60068-2-6 | 40 m/s ² (8,2Hz...500Hz), 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) |

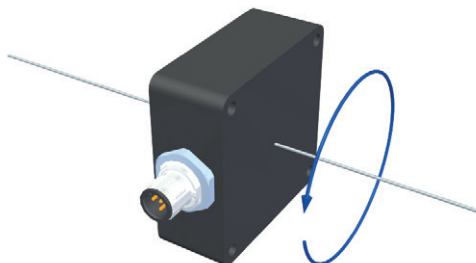
(*) 0.001° only if range is below ±30° in 2-axes mode.

CONNECTION

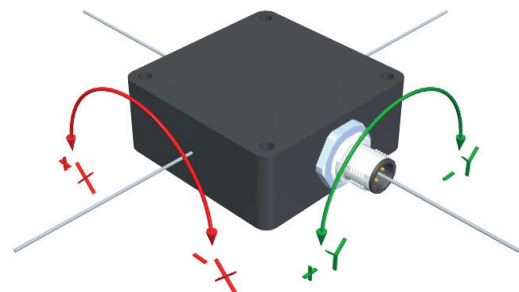


| | |
|--|--------------------|
| | M12 5p male CCW |
| SHIELD - Optional CAN shield | 1 |
| VCC - Power supply | 2 |
| GND - Ground | 3 |
| Data AH - CAN_H bus line (dominant high) | 4 |
| Data BL - CAN_L bus line (dominant low) | 5 |

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.