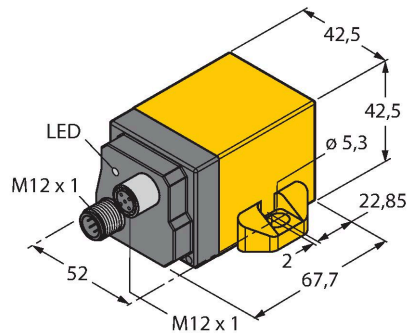


# B2N60H-Q42-CN2-2H1150

## Inclinometer – With CANopen Interface



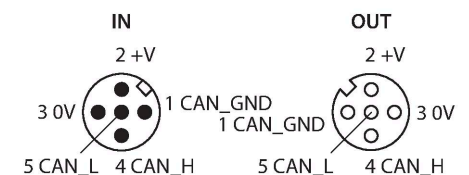
### Features

- Rectangular, height 42 mm
- Plastic, PA12-GF30
- Convenient CANopen interface
- Fulfills CiA DS-301, CiA DSP-410
- High resolution and accuracy
- Baud rates of 10 kbps up to 1 Mbps
- High sampling rate and bandwidth
- Parameterizable vibration suppression
- One TPDO (RTR, cyclic, event-controlled, synchronized)
- Configuration via SDO and object directory
- SYNC load (synchronized transmission of TPDO after reception of SYNC telegram)
- EMCY producer (inclination, internal device temperature monitoring)
- Failure monitoring via heartbeat or nodeguarding/lifeguarding
- Freely configurable limit frequency (digital filter)
- Robust and compact plastic housing

### Technical data

|                          |                                                                                                                                                                                                          |
|--------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Type                     | B2N60H-Q42-CN2-2H1150                                                                                                                                                                                    |
| Ident. no.               | 1534063                                                                                                                                                                                                  |
| Measuring range          | -60...60 °                                                                                                                                                                                               |
| Measuring range x-axis   | -60...60 °                                                                                                                                                                                               |
| Measuring range y-axis   | -60...60 °                                                                                                                                                                                               |
| Number of measuring axes | 2                                                                                                                                                                                                        |
| Linearity deviation      | max. ± 0.4 °                                                                                                                                                                                             |
| Temperature drift        | ≤ ± 0.01 % / K                                                                                                                                                                                           |
| Resolution               | ≤ 0.1 °                                                                                                                                                                                                  |
| Ambient temperature      | -40...+80 °C                                                                                                                                                                                             |
| Operating voltage        | 10...30 VDC                                                                                                                                                                                              |
| Limit frequency          | typ. 20 Hz, 2.(without digital filter) 0.3 ... 25 Hz, 8. (with Butterworth, low-pass) The digital filter is deactivated with the value 0. Values between 300 (= 0.3 Hz) and 25000 (= 25 Hz) are allowed. |
| Communication protocol   | CANopen                                                                                                                                                                                                  |
| Interface                | CANopen                                                                                                                                                                                                  |
| Node ID                  | 1...127 (Default 10)                                                                                                                                                                                     |
| Baud rate                | 10 kbps up to 1 Mbps admissible values<br>10 kbps, 20 kbps, 50 kbps, 125 kbps, 250 kbps, 500 kbps, 800 kbps and 1000 kbps (Default 500 kbps)                                                             |
| Sample rate              | 100 Hz                                                                                                                                                                                                   |
| Current consumption      | 50...105 mA (voltage-dependent)                                                                                                                                                                          |
| Design                   | Rectangular, Q42                                                                                                                                                                                         |
| Dimensions               | 67.7 x 42.5 x 42.5 mm                                                                                                                                                                                    |

### Wiring diagram



### Functional principle

Inclination is determined by a wear-free semiconducting sensor element.

For more technical details, there is a manual available for download on the Internet.

## Technical data

|                       |                                          |
|-----------------------|------------------------------------------|
| Housing material      | Plastic, PA12-GF30                       |
| Electrical connection | Connector, M12 × 1                       |
| Vibration resistance  | 55 Hz (1 mm)                             |
| Shock resistance      | 30 g (11 ms)                             |
| Protection class      | IP68 / IP69K                             |
| MTTF                  | 55 years acc. to SN 29500 (Ed. 99) 40 °C |
| Power-on indication   | LED, Green                               |
| Error indication      | LED, red                                 |