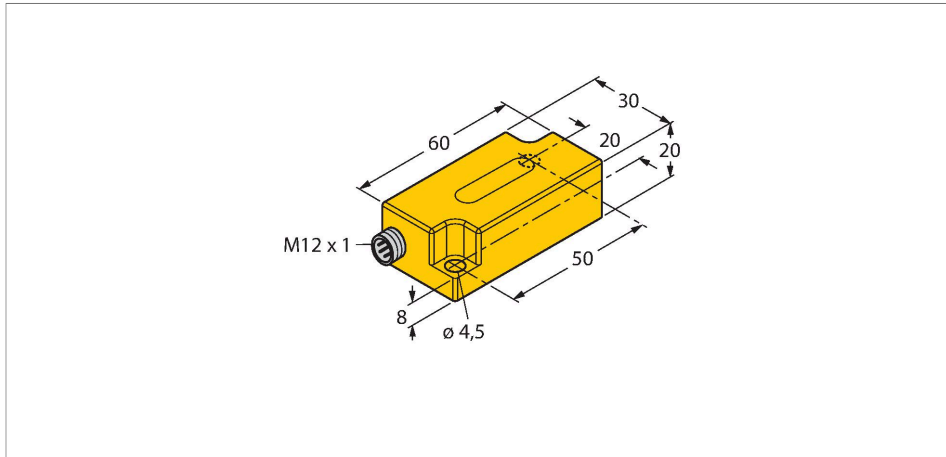


B2N60H-Q20L60-2LU3-H1151

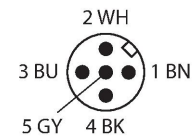
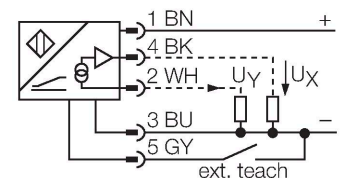
Inclinometer



Features

- Plastic, PC
- Zero point calibration +/- 15°
- Two analog outputs
- M12 x 1 male connector

Wiring diagram



Technical data

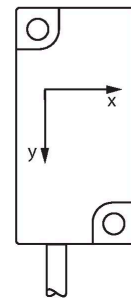
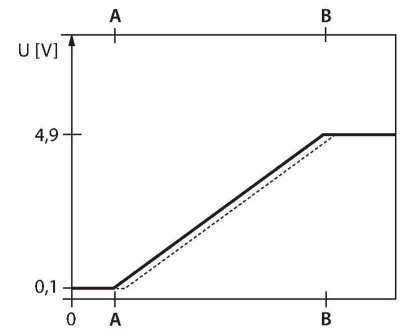
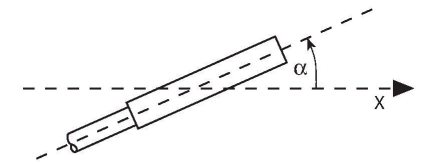
| | |
|---|---|
| Type | B2N60H-Q20L60-2LU3-H1151 |
| Ident. no. | 1534008 |
| Measuring range | -60...60° |
| Measuring range x-axis | -60...60° |
| Measuring range y-axis | -60...60° |
| Number of measuring axes | 2 |
| Repeatability | ≤ 0.2 % of measuring range A - B |
| Linearity deviation | ≤ 0.5 % |
| Temperature drift | ≤ ± 0.025 % / K |
| Resolution | ≤ 0.14 ° |
| Ambient temperature | -30...+70 °C |
| Operating voltage | 10...30 VDC |
| Isolation test voltage | ≤ 0.5 kV |
| Short-circuit protection | yes |
| Wire breakage/Reverse polarity protection | no / yes |
| Surge protection | -48...48 VDC [U _{b,max.}] |
| Output function | 5-pin, Analog output |
| Voltage output | 0.1...4.9 V |
| Load resistance voltage output | ≥ 40 kΩ |
| Response time | 0.1 s |
| | time for the output signal to achieve 90% full scale if the angle changes from -60° to +60° |
| Current consumption | 50 mA |

Functional principle

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

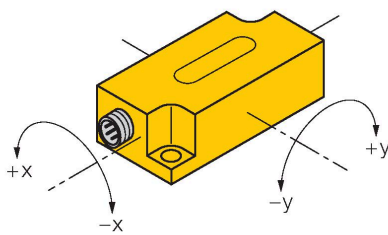
Technical data

| | |
|-----------------------|---|
| Design | Rectangular, Q20L60 |
| Dimensions | 60 x 30 x 20 mm |
| Housing material | Plastic, PC |
| Electrical connection | Connector, M12 x 1 |
| Vibration resistance | 55 Hz (1 mm) |
| Shock resistance | 30 g (11 ms) |
| Protection class | IP68 / IP69K |
| MTTF | 203 years acc. to SN 29500 (Ed. 99) 40 °C |



Mounting instructions

Mounting instructions/Description



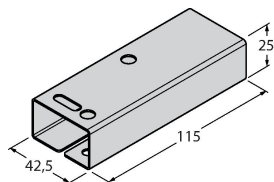
Teaching

The zero point can be adjusted with teach adapter TX1-Q20L60. Teach-GND is pressed for approx. 1 s to do this. The outputs are switched to 5 V as confirmation. Teach-GND is pressed for 6 s to reset the axis zero points. The outputs are switched to 0 V as confirmation. Once the teach button is released, the sensor returns to normal operation.

Accessories

SG-Q20L60

6901100



Protective housing for Q20L60 inclinometers for protecting against mechanical impact; material: Stainless steel