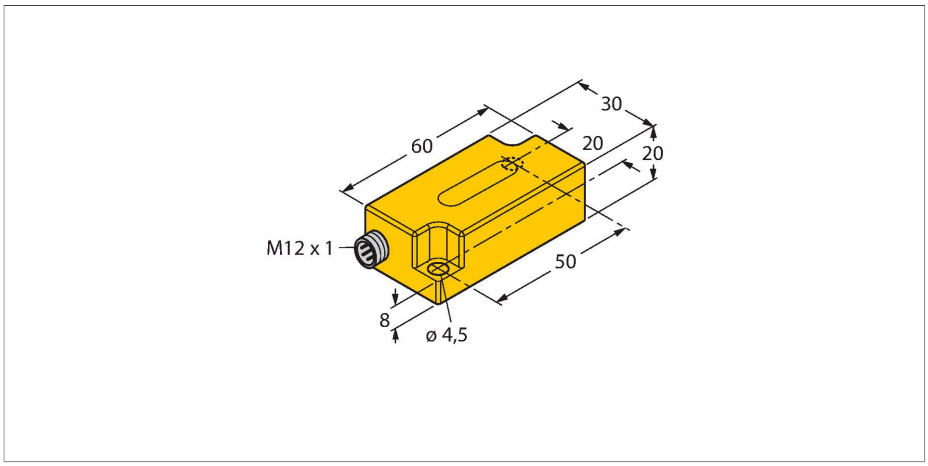
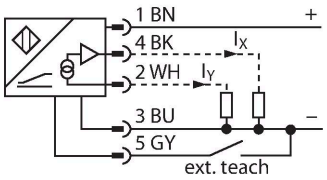
B2N10H-Q20L60-2LI2-H1151
Inclinometer

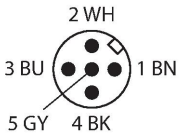


Features

- Plastic, PC
- Zero point calibration +/- 5°
- Two analog outputs
- M12 x 1 male connector

Wiring diagram



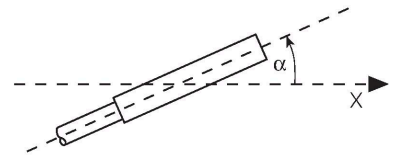


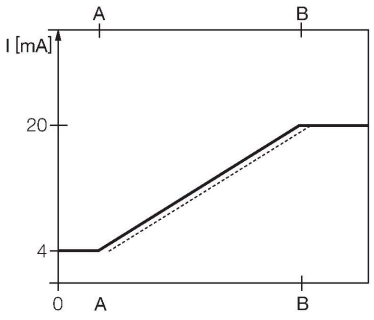
Technical data

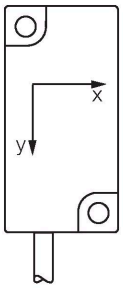
Type	B2N10H-Q20L60-2LI2-H1151
ID	1534012
Measuring principle	Acceleration
General data	
Measuring range	-10…10 °
Measuring range x-axis	-10…10 °
Measuring range y-axis	-10…10 °
Number of measuring axes	2
Repeatability	≤ 0.2 % of measuring range |A - B|
Linearity deviation	≤ 1 %
Temperature drift	≤ ± 0.05 %/K
Resolution	≤ 0.04 °
Electrical data	
Operating voltage U_B	10…30 VDC
Isolation test voltage	0.5 kV
Short-circuit protection	yes
Wire break/reverse polarity protection	no/yes
Output function	5-pin, Analog output
Current output	4…20 mA
Load resistance current output	≤ 0.2 kΩ
Response time	0.1 s
	time for the output signal to achieve 90% full scale if the angle changes from -10° to +10°
Current consumption	50 mA
Mechanical data	
Design	Rectangular, Q20L60
Dimensions	60 x 30 x 20 mm

Functional principle

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







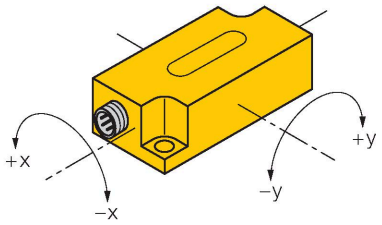
B2N10H-Q20L60-2LI2-H1151| 21-02-2025 15-59 | Technical modifications reserved

Technical data

Housing material	Plastic, PC
Electrical connection	Connector, M12 × 1
Environmental conditions	
Ambient temperature	-30…+70 °C
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

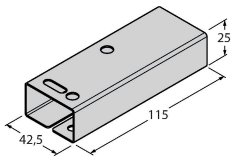
Mounting instructions

Mounting instructions/Description



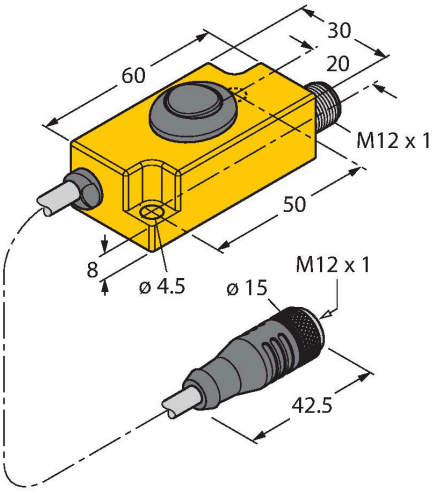
Teaching
The zero point can be adjusted with teach adapter TX1-Q20L60.
Teach-GND is pressed for approx. 1 s to do this. The outputs are switched to 20 mA as confirmation.
Teach-GND is pressed for 6 s to reset the axis zero points. The outputs are switched to 4mA as confirmation.
Once the teach button is released, the sensor returns to normal operation.

Accessories

GUARD-Q20L60	A9684
	Protective housing for Q20L60 inclinometers for protecting against mechanical impact; material: Stainless steel

B2N10H-Q20L60-2LI2-H1151| 21-02-2025 15-59 | Technical modifications reserved

Accessories

Dimension drawing	Type	ID	
	TX1-Q20L60	6967114	Teach adapter for inductive encoders, linear position, angle, ultrasonic and capacitive sensors

B2N10H-Q20L60-2LI2-H1151| 21-02-2025 15-59 | Technical modifications reserved