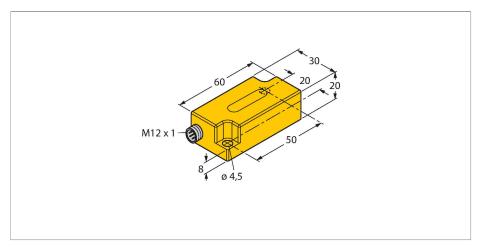
# B2N60H-Q20L60-2LI2-H1151/S97 Inclinometer – With Increased Temperature Range



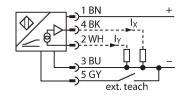
## Technical data

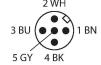
Turna	B2N60H-Q20L60-2LI2-H1151/S97
Туре	
ID	1534046
Measuring principle	Acceleration
General data	
Measuring range	-6060 °
Measuring range x-axis	-6060 °
Measuring range y-axis	-6060 °
Number of measuring axes	2
Repeatability	≤ 0.2 % of measuring range  A - B
Linearity deviation	≤ 0.5 %
Temperature drift	≤ ± 0.03 %/K
	for temperature range between -40 °C and +85°C
Resolution	≤ 0.14 °
Electrical data	
Operating voltage U <sub>B</sub>	1030 VDC
Operating voltage U <sub>B</sub>	1030 VDC 0.5 kV
Isolation test voltage	0.5 kV
Isolation test voltage Short-circuit protection	0.5 kV yes
Isolation test voltage Short-circuit protection Wire break/reverse polarity protection	0.5 kV yes no/yes
Isolation test voltage Short-circuit protection Wire break/reverse polarity protection Output function	0.5 kV  yes  no/yes  5-pin, Analog output
Isolation test voltage Short-circuit protection Wire break/reverse polarity protection Output function Current output	0.5 kV  yes  no/yes  5-pin, Analog output  420 mA
Isolation test voltage Short-circuit protection Wire break/reverse polarity protection Output function Current output Load resistance current output	0.5 kV  yes  no/yes  5-pin, Analog output  420 mA  ≤ 0.2 kΩ
Isolation test voltage Short-circuit protection Wire break/reverse polarity protection Output function Current output Load resistance current output	0.5 kV  yes  no/yes  5-pin, Analog output  420 mA  ≤ 0.2 kΩ  0.1 s  time for the output signal to achieve 90% of full scale if the angle changes from

## **Features**

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

# Wiring diagram



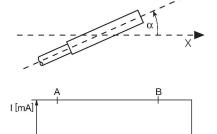


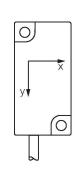
20

Ö

## Functional principle

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





B

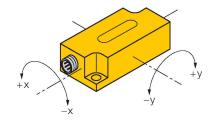


#### Technical data

Mechanical data	
Design	Rectangular, Q20L60
Dimensions	60 x 30 x 20 mm
Housing material	Plastic, PC
Electrical connection	Connector, M12 × 1
Environmental conditions	
Ambient temperature	-40+70 °C
Vibration resistance	55 Hz (1 mm)
Shock resistance	30 g (11 ms)
Protection class	IP68 IP69K
MTTF	203 years

## Mounting instructions

#### Mounting instructions/Description



Teaching

The zero point can be adjusted with teach adapter TX1-Q20L60.

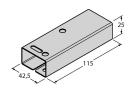
Teach-GND is pressed for approx. 1 s to do this. The outputs are switched to 20 mA as confirmation.

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



## Accessories

