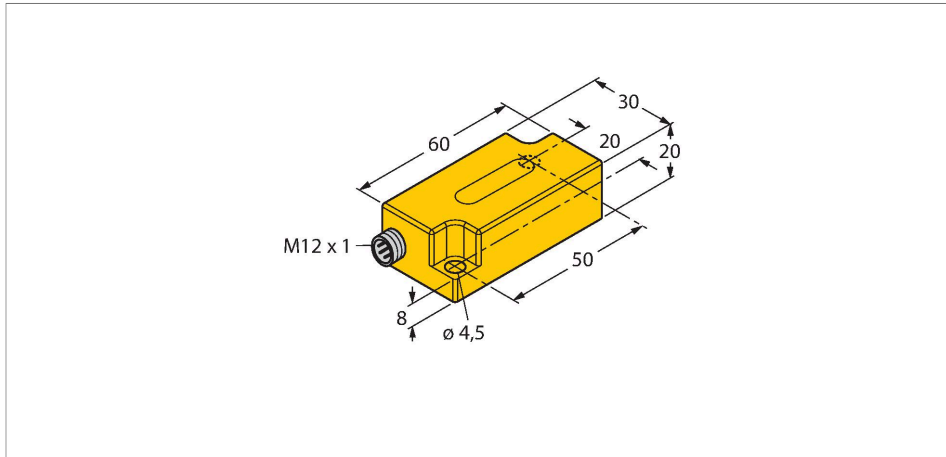


B2N45H-Q20L60-2LI2-H1151/S97

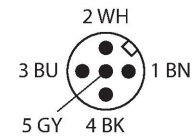
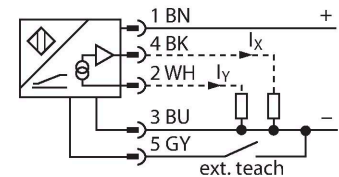
Inclinometer – With Increased Temperature Range



Features

- Plastic, PC
- For temperatures up to -40 °C
- Zero point calibration +/- 15°
- Two analog outputs
- M12 x 1 male connector

Wiring diagram



Technical data

Type	B2N45H-Q20L60-2LI2-H1151/S97
ID	1534037
Measuring principle	Acceleration
General data	
Measuring range	-45...45 °
Measuring range x-axis	-45...45 °
Measuring range y-axis	-45...45 °
Number of measuring axes	2
Repeatability	≤ 0.2 % of measuring range A - B
Linearity deviation	≤ 0.5 %
Temperature drift	≤ ± 0.04 %/K
	for temperature range between -40 °C and +85°C
Resolution	≤ 0.1 °
Electrical data	
Operating voltage	10...30 VDC
Isolation test voltage	≤ 0.5 kV
Short-circuit protection	yes
Wire breakage/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

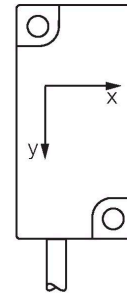
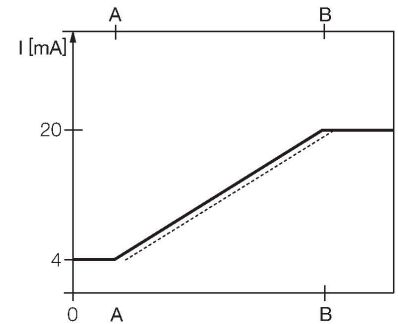
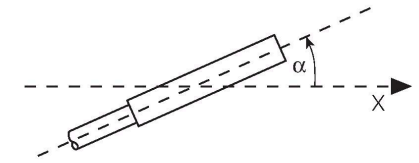
Functional principle

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

Technical data

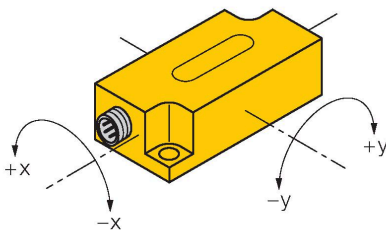
time for the output signal to achieve 90% of full scale if the angle changes from -45° to $+45^\circ$

Current consumption	50 mA
Mechanical data	
Design	Rectangular, Q20L60
Dimensions	60 x 30 x 20 mm
Housing material	Plastic, PC
Electrical connection	Connector, M12 x 1
Environmental conditions	
Ambient temperature	$-40 \dots +70 \text{ }^\circ\text{C}$
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 4 mA 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

