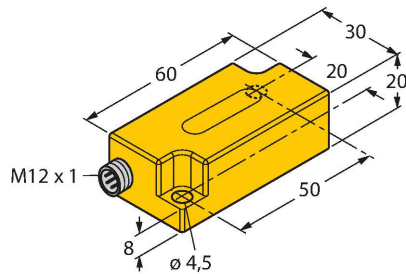


B2N45H-Q20L60-2LU3-H1151/S97

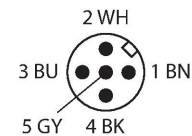
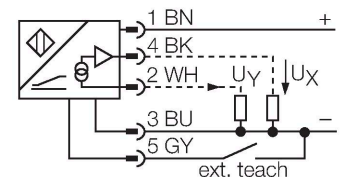
Inclinometer – With Increased Temperature Range



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

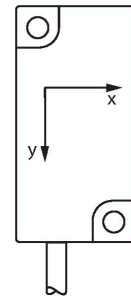
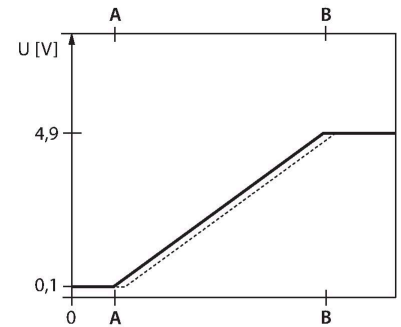
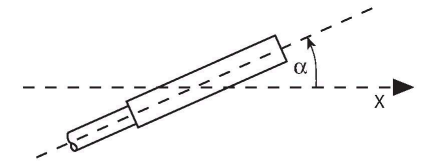
Type	B2N45H-Q20L60-2LU3-H1151/S97
Ident. no.	1534039
Measuring range	-45...45 °
Measuring range x-axis	-45...45 °
Measuring range y-axis	-45...45 °
Number of measuring axes	2
Repeatability	≤ 0.2 % of measuring range A - B
Linearity deviation	≤ 0.5 %
Temperature drift	≤ ± 0.04 % / K
	for temperature range between -40 °C and +85°C
Resolution	≤ 0.1 °
Ambient temperature	-40...+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% of full scale if the angle changes from -45° to +45°

Functional principle

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

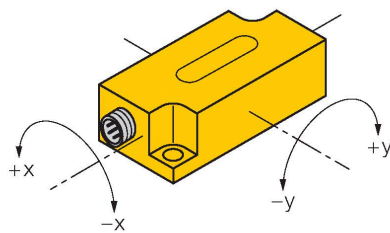
Technical data

Current consumption	50 mA
Design	Rectangular, Q20L60
Dimensions	60 x 30 x 20 mm
Housing material	Plastic, PC
Electrical connection	Connector, M12 × 1
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 5 V as confirmation.

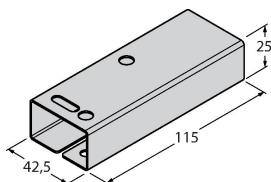
Teach-GND is pressed for 6 s to reset the axis zero points. The outputs are switched to 0 V as confirmation.

Once the teach button is released, the sensor returns to normal operation.

Accessories

GUARD-Q20L60

A9684



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