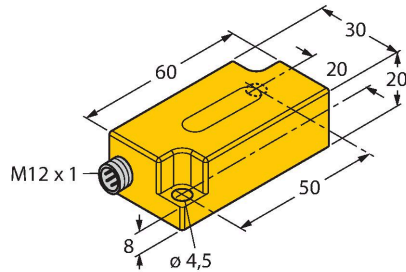


# B2N5H-Q20L60-2LU3-H1151

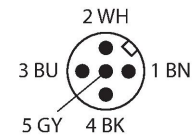
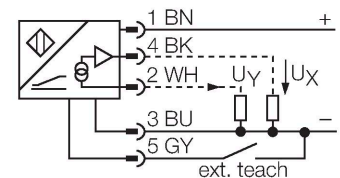
## Inclinometer



### Features

- Plastic, PC
- Zero point calibration  $\pm 2^\circ$
- Two analog outputs
- M12 x 1 male connector

### Wiring diagram



### Technical data

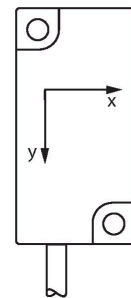
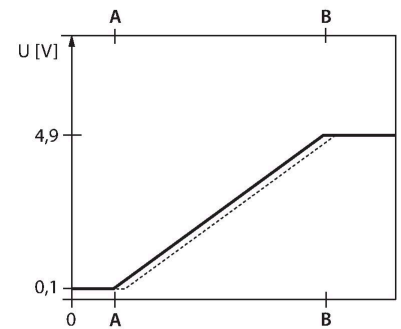
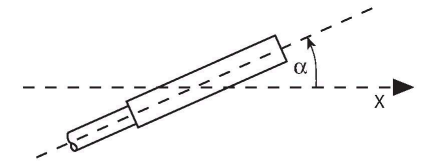
Type	B2N5H-Q20L60-2LU3-H1151
ID	1534025
Measuring principle	Acceleration
<b>General data</b>	
Measuring range	$-5 \dots 5^\circ$
Number of measuring axes	2
Repeatability	$\leq 0.2\%$ of measuring range $ A - B $
Temperature drift	$\leq \pm 0.1\% / K$
Resolution	$\leq 0.04^\circ$
<b>Electrical data</b>	
Operating voltage $U_b$	10...30 VDC
Isolation test voltage	0.5 kV
Short-circuit protection	yes
Wire break/reverse polarity protection	no/yes
Surge protection	$-48 \dots 48$ VDC [ $U_{b \max}$ ]
Output function	5-pin, Analog output
Voltage output	0.1...4.9 V
Load resistance voltage output	$\geq 40$ k $\Omega$
Response time	0.1 s
	time for the output signal to achieve 90% of full scale if the angle changes from $-5^\circ$ to $+5^\circ$
Current consumption	50 mA
<b>Mechanical data</b>	
Design	Rectangular, Q20L60

### Functional principle

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

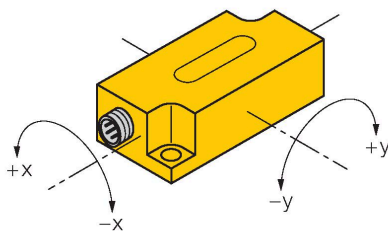
## Technical data

Dimensions	60 x 30 x 20 mm
Housing material	Plastic, PC
Electrical connection	Connector, M12 × 1
<b>Environmental conditions</b>	
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 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

