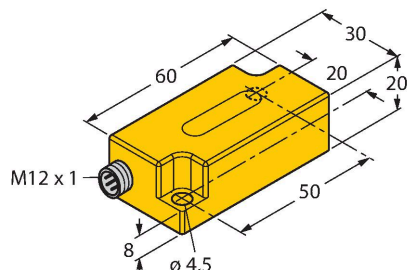


B2N60H-Q20L60-2LU3-H1151

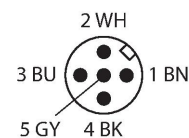
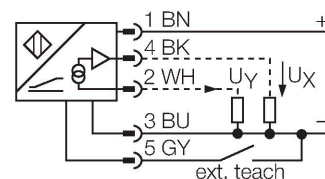
Inclinometer



Features

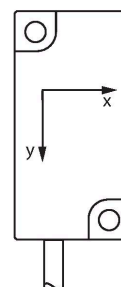
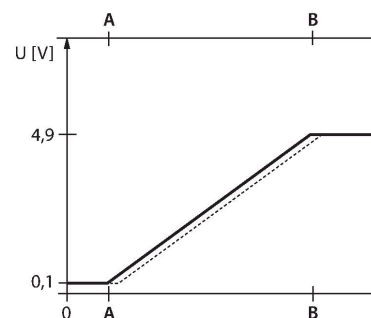
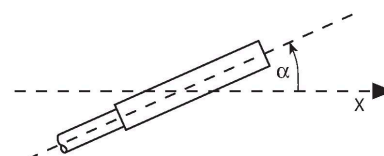
- Plastic, PC
- Zero point calibration $\pm 15^\circ$
- Two analog outputs
- M12 x 1 male connector

Wiring diagram



Functional principle

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



Technical data

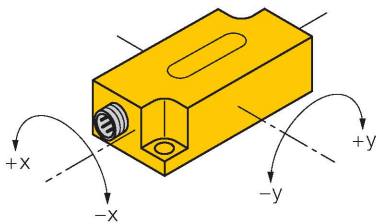
Type	B2N60H-Q20L60-2LU3-H1151
ID	1534008
Measuring principle	Acceleration
General data	
Measuring range	-60...60 °
Measuring range x-axis	-60...60 °
Measuring range y-axis	-60...60 °
Number of measuring axes	2
Repeatability	$\leq 0.2 \%$ of measuring range $ A - B $
Linearity deviation	$\leq 0.5 \%$
Temperature drift	$\leq \pm 0.025 \%/K$
Resolution	$\leq 0.14^\circ$
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
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	$\geq 40 \text{ k}\Omega$
Response time	0.1 s
	time for the output signal to achieve 90% full scale if the angle changes from -60° to +60°
Current consumption	50 mA
Mechanical data	
Design	Rectangular, Q20L60

Technical data

Dimensions	60 x 30 x 20 mm
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

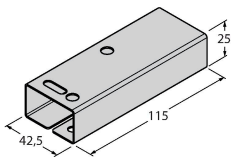


Teaching
The zero point can be adjusted with teach adapter TX1-Q20L60.
Teach-GND is pressed for approx. 1 s to do this. The outputs are switched to 5 V as confirmation.
Teach-GND is pressed for 6 s to reset the axis zero points. The outputs are switched to 0 V as confirmation.
Once the teach button is released, the sensor returns to normal operation.

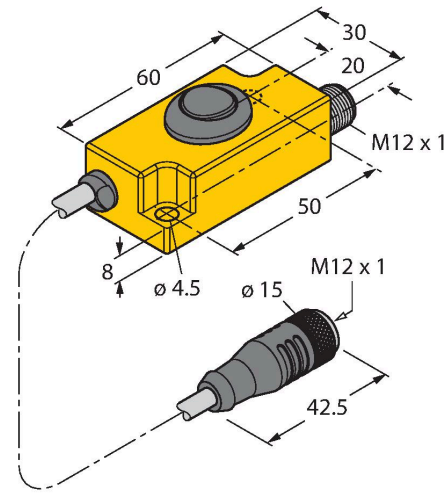
Accessories

GUARD-Q20L60 A9684

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



Accessories

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