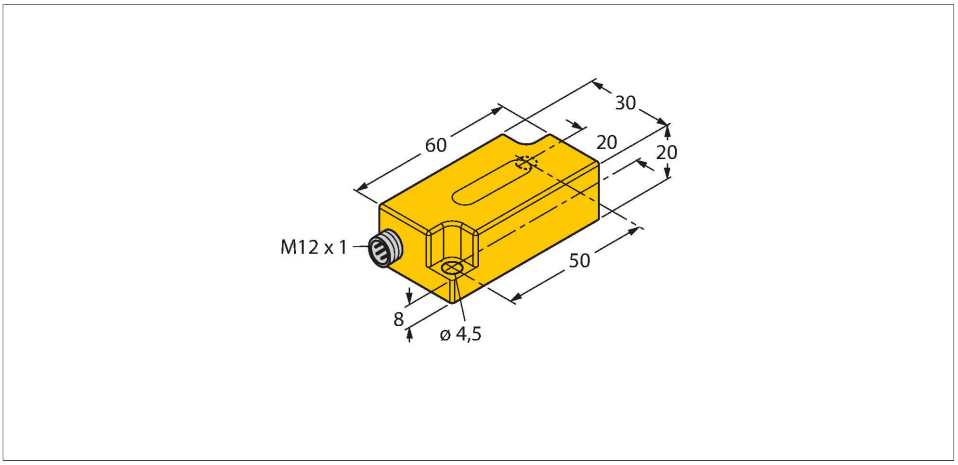
B2N10H-Q20L60-2LU4-H1151/S1217
Inclinometer – With Increased Damping



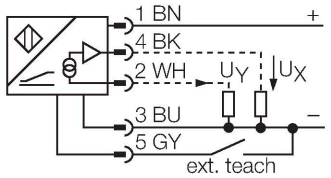
Technical data

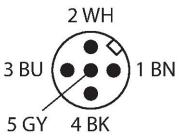
Type	B2N10H-Q20L60-2LU4-H1151/S1217
ID	1534115
Special version	S1217 corresponds to: Inclinometers: 1 s response time and 6 Hz low-pass filter and level 8
Measuring principle	Acceleration
General data	
Measuring range	-10…10 °
Number of measuring axes	2
Repeatability	≤ 0.2 % of measuring range |A - B|
Linearity deviation	≤ 1 %
Temperature drift	≤ ± 0.05 % / K
Resolution	≤ 0.04 °
Electrical data	
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	0.5…4.5 V
Outout impedance	99…105 Ω
Response time	1 s
Current consumption	50 mA

Features

- Plastic, PC
- Response time 1 s
- Cutoff frequency 6 Hz
- Measuring range adjustable via teach adapter TX1-Q20L60
- Two analog outputs
- M12 x 1 male connector

Wiring diagram



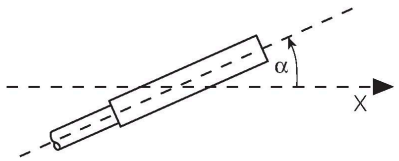


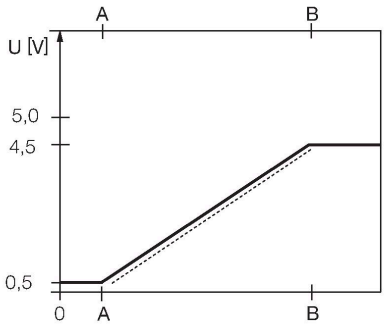
Functional principle

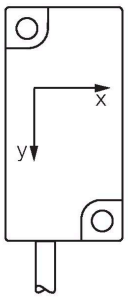
Inclination is determined by a wear-free semiconducting sensor element.

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	-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

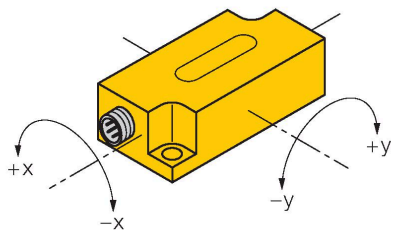






Mounting instructions

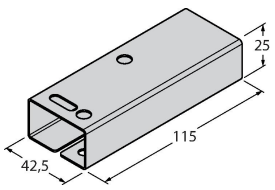
Mounting instructions/Description



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

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