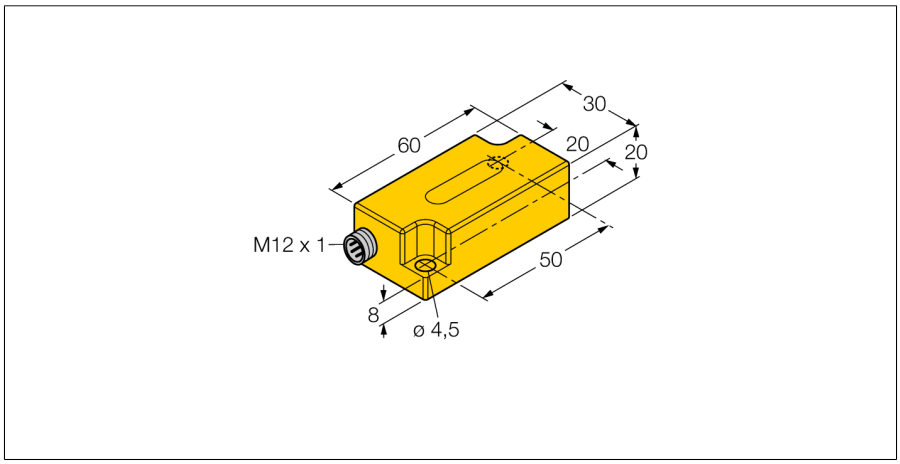
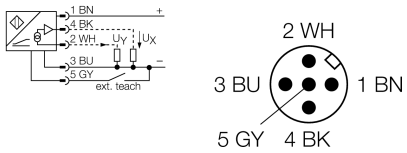
Inclinometer
B2N10H-Q20L60-2LU3-H1151



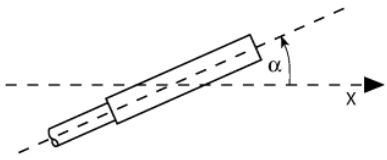
- **Plastic, PC**
- **Zero point calibration +/- 5°**
- **Two analog outputs**
- **Male M12 x 1**

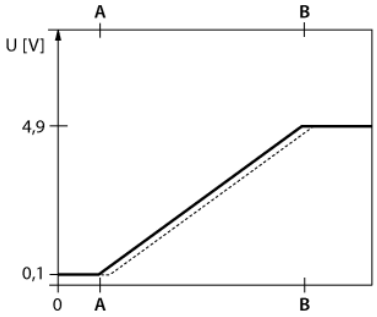
Wiring diagram

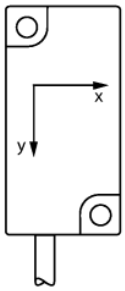


Functional principle

Inclination is determined by a wear-free semi-conducting sensor element.







Type code	B2N10H-Q20L60-2LU3-H1151
Ident no.	1534006
Measuring range	-10…10°
Measuring range x-axis	-10…10°
measuring range y-axis	-10…10°
Repeatability	≤ 0.2 % of measuring range |A - B|
	≤ 0.1 %, after warm-up 0.5 h
Absolute accuracy (at 25 °C)	+/- 0.3 °
Temperature coefficient typical	0.01 °/K
Resolution	≤ 0.04 °
Ambient temperature	-30…+70 °C
Operating voltage	10…30VDC
No-load current I_0	≤ 20 mA
Rated insulation voltage	≤ 0.5 kV
Wire breakage / Reverse polarity protection	yes/ yes
surge protection	-48…48VDC [$U_{b\,max}$]
Output function	4-wire, analog output
Voltage output	0.1…4.9V
Load resistance voltage output	≥ 40 kΩ
Outout impedance	99…105Ω
Voltage output	Short circuit proof U_b (= 10…30 VDC)
Response time	0.1 s
	time for the output signal to achieve 90% full scale if the angle changes from -10° to +10°
Design	rectangular, Q20L60
Dimensions	60 x 30 x 20 mm
Housing material	plastic, PC
Connection	male, M12 x 1
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

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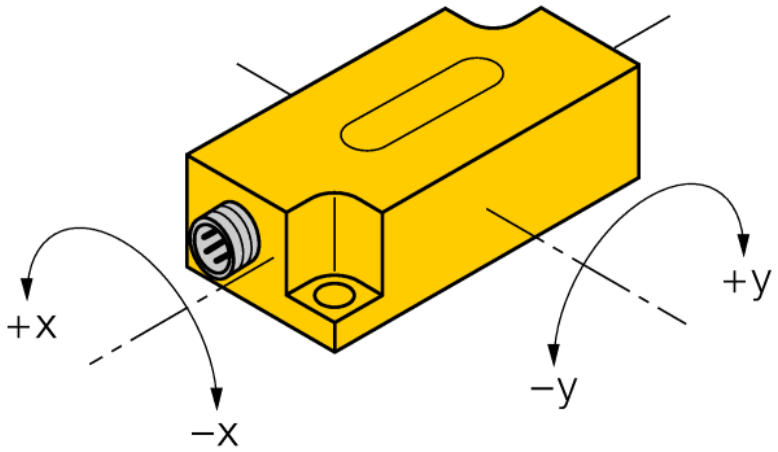
Mounting instructions / Description	Tilt angle



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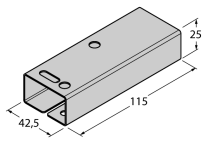
Accessories

Type code	Ident no.	Description	Dimension drawing
VB2-SP3	6999085	Teach adapter	
SG-Q20L60	6901100	Protective frame for Q20L60; protects against mechanical impact; stainless steel	

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