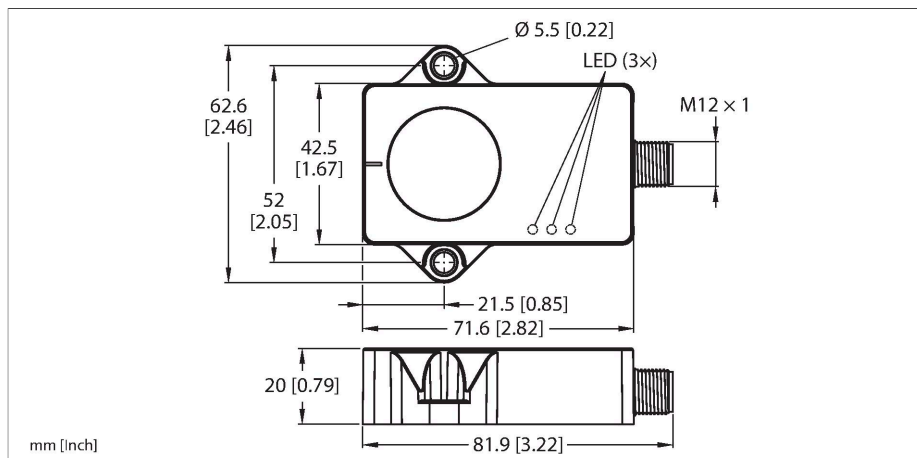


# B2N85H-QR20-2LI2X3-H1151

## Inclinometer



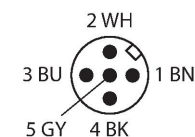
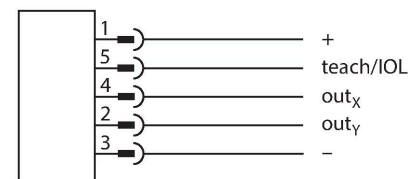
### Technical data

Type	B2N85H-QR20-2LI2X3-H1151
ID	100031455
Measuring principle	Acceleration
<b>General data</b>	
Resolution	16 bit
Measuring range	-85...85 °
Number of measuring axes	2
Repeat accuracy	≤ 0.1 % of full scale
Linearity deviation	≤ 0.3 %
Temperature drift	≤ ± 0.012 %/K
<b>Electrical data</b>	
Operating voltage	15...30 VDC
Residual ripple	≤ 10 % U <sub>ss</sub>
Isolation test voltage	≤ 0.5 kV
Short-circuit protection	yes
Wire breakage/Reverse polarity protection	yes / yes
Output function	5-pin, Analog output
Current output	4...20 mA
Load resistance voltage output	≥ 4.7 kΩ
Load resistance current output	≤ 0.4 kΩ
Current consumption	< 80 mA
<b>Mechanical data</b>	
Design	Rectangular, QR20
Dimensions	71.6 x 62.6 x 20 mm
Housing material	Plastic, Ultem
Electrical connection	Connector, M12 × 1

### Features

- Rectangular, plastic, Ultem
- Status displayed via LED
- Angle detection along two axes with ±85 ° measuring range
- High protection class IP68/IP69K
- Protected against salt spray and rapid temperature change
- 15...30 VDC
- M12 × 1 male connector, 5-pin
- Analog output 4...20 mA
- The center point of the measuring range can be adjusted using teach adaptor TX1-Q20L60
- Individual parameterization possible with USB-2-IOL-0002

### Wiring diagram



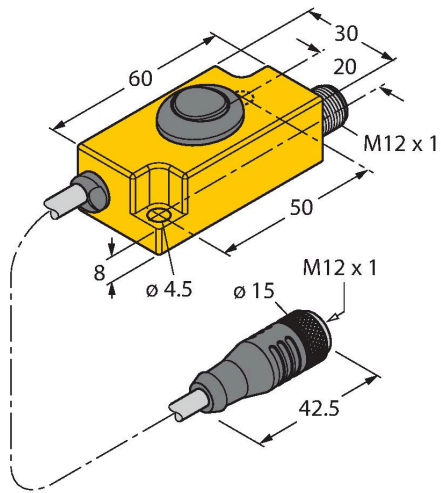
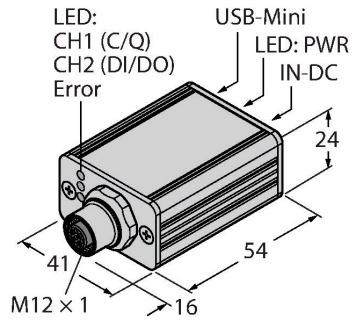
### Functional principle

The inclinometers use an acceleration measuring cell to determine the angle. The Earth's gravity is used as a reference. If the inclinometer changes its angle relative to the Earth's gravity, this is detected by the acceleration measuring cell.



## Accessories

Dimension drawing	Type	ID	
	USB-2-IOL-0002	6825482	IO-Link Master with integrated USB port



TX1-Q20L60

6967114

Teach adapter for inductive encoders, linear position, angle, ultrasonic and capacitive sensors