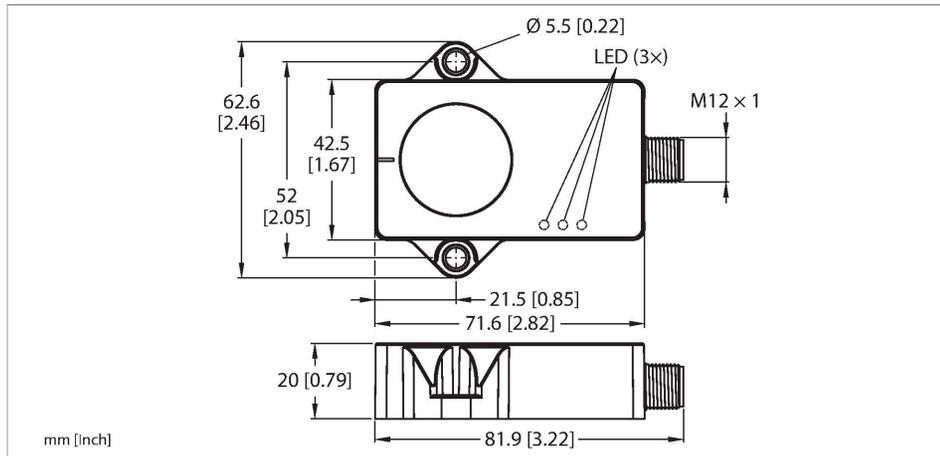


# B1N360V-QR20-2UPN6X3-H1141

## Inclinometer – With Switching Outputs



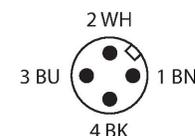
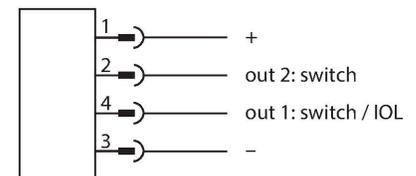
### Technical data

Type	B1N360V-QR20-2UPN6X3-H1141
ID	100026933
Measuring principle	Acceleration
<b>General data</b>	
Measuring range	0...360 °
Number of measuring axes	1
Repeat accuracy	≤ 0.05 % of full scale
Temperature drift	≤ ± 0.006 %/K
<b>Electrical data</b>	
Operating voltage $U_B$	10...30 VDC
Ripple $U_{ss}$	≤ 10 % $U_{Bmax}$
DC rated operating current $I_B$	≤ 200 mA
Isolation test voltage	0.5 kV
Wire break/reverse polarity protection	yes
Output function	4-pin, NO/NC, PNP/NPN
Current consumption	< 50 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
<b>Environmental conditions</b>	
Ambient temperature	-40...+85 °C
Temperature changes (EN60068-2-14)	-40... +85 °C; 20 cycles

### Features

- Rectangular, plastic, Ultem
- Status displayed via LED
- Angle detection via one axis with 360 ° measuring range and two freely configurable switching outputs (PNP/NPN)
- High protection class IP68/IP69K
- Protected against salt spray and rapid temperature change
- 10...30 V DC
- Male connector, M12 × 1, 4-pin
- Parameterization via IO-Link 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



## Wiring accessories

Dimension drawing	Type	ID	
	RKC4.4T-2-RSC4.4T/TXL	6625608	Extension cable, M12 female connector, straight, 4-pin to M12 male connector, straight, 4-pin; cable length: 2 m, jacket material: PUR, black; cULus approval
	RKC4.4T-2/TXL	6625503	Connection cable, M12 female connector, straight, 4-pin, cable length: 2 m, jacket material: PUR, black; cULus approval