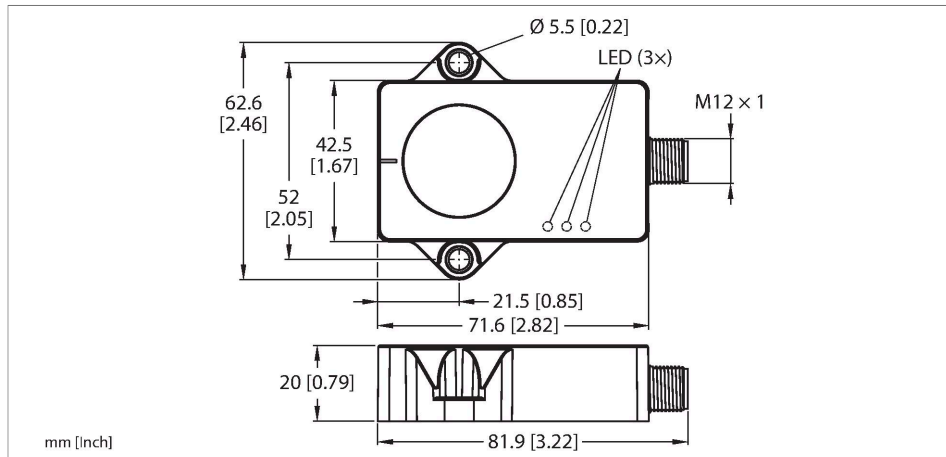


B2NF85H-QR20-IOLX3-H1141

Dynamic Inclinometer – IO-Link



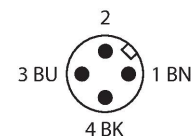
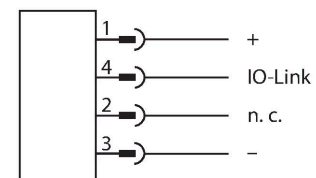
Technical data

Type	B2NF85H-QR20-IOLX3-H1141
ID	100020901
Measuring principle	Combination of gyroscopes and accelerometers
General data	
Measuring range	-85...85 °
Number of measuring axes	2
Repeat accuracy	≤ 0.06 % of full scale
Linearity deviation	≤ 0.15 %
Temperature drift	≤ ± 0.012 %/K
Resolution	≤ 0.01 °
Electrical data	
Operating voltage U_B	18...30 VDC
Ripple U_{rs}	≤ 10 % U_{Bmax}
Isolation test voltage	0.5 kV
Wire break/reverse polarity protection	yes
Communication protocol	IO-Link
Current consumption	< 50 mA
IO-Link	
Communication mode	COM 3 (230.4 kBaud)
Minimum cycle time	1.3 ms
Function pin 4	IO-Link
Mechanical data	
Design	Rectangular, QR20

Features

- Rectangular, plastic, Ultem
- Status displayed via LED
- Angle detection via two axes with ±85 ° measuring range
- Temperature detection from -40 °C to 85 °C
- High protection class IP68/IP69K
- Protected against salt spray and rapid temperature change
- 18...30 VDC
- M12 × 1 connector, 4-pin
- Communication via IO-Link

Wiring diagram



Functional principle

The dynamic inclinometers use an acceleration measuring cell and a gyroscope sensor to determine angles. Influences caused by vibrations or interfering acceleration are minimized by applying an intelligent fusion

Wiring accessories

Dimension drawing	Type	ID	
	RKC4T-2-RSC4T/TXL	6625604	Extension cable, M12 female connector, straight, 3-pin to M12 male connector, straight, 3-pin; cable length: 2 m, jacket material: PUR, black; cULus approval
	RKC4T-2/TXL	6625500	Connection cable, M12 female connector, straight, 3-pin, cable length: 2 m, jacket material: PUR, black; cULus approval