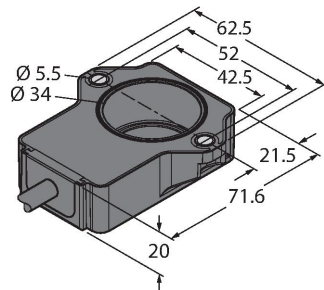


RI90P2-QR20-LI2X2

Premium Line



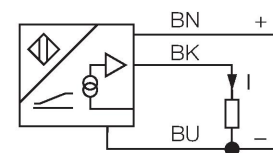
Technical data

Type	RI90P2-QR20-LI2X2
Ident. no.	100004584
Measuring principle	Inductive
Starting torque shaft load (radial / axial)	Not applicable because of contactless measuring principle
Nominal distance	1 mm
Temperature drift	$\leq \pm 0.02 \% / K$
Operating voltage	15...30 VDC
Residual ripple	$\leq 10 \% U_{ss}$
Isolation test voltage	$\leq 0.5 kV$
Short-circuit protection	yes
Wire breakage/Reverse polarity protection	yes / Complete
Output type	Absolute singleturn
Output function	3-wire, Analog output
Current output	4...20 mA
Diagnostic	Positioning element not detected: Output signal 22 mA (typ.)
Load resistance, current output	$\leq 0.4 k\Omega$
Current consumption	$< 100 mA$
Design	Rectangular, QR20
Dimensions	71.6 x 62.5 x 20 mm
Flange type	Flange without mounting element
Shaft Type	Blind hole shaft
Shaft diameter D [mm]	6

Features

- Rectangular, plastic
- Compact, rugged housing
- Many mounting possibilities
- 3-wire, 15...30 VDC
- Analog output 4...20 mA
- Output 22 mA (typ.) where there is no RLC coupling
- Cable length 2m

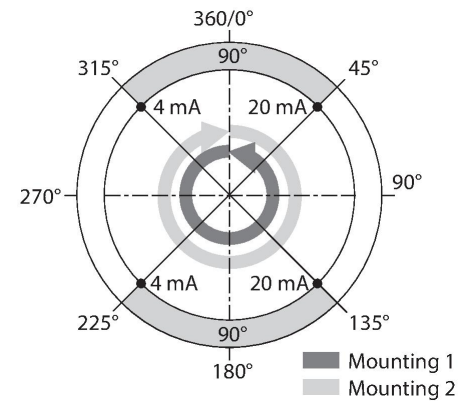
Wiring diagram



Functional principle

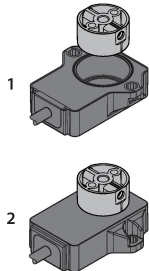
Technical data

	6.35
Housing material	Plastic, Ultem
Electrical connection	Cable
Cable quality	Ø 5.2 mm, Lif32Y32Y, TPE, 2 m
Core cross-section	3 x 0.5 mm ²
Vibration resistance	55 Hz (1 mm)
Vibration resistance (EN 60068-2-6)	20 g; 10...3000 Hz; 50 cycles; 3 axes
Shock resistance (EN 60068-2-27)	100 g; 11 ms ½ sine; 3 x each; 3 axes
Continuous shock resistance (EN 60068-2-29)	40 g; 6 ms ½ sinus; each 4000 x; 3 axes
Power-on indication	LED, Green
Measuring range display	multifunction LED, green green flashing
Included in delivery	P2-Ri-QR20



Mounting instructions

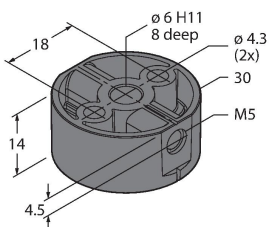
Mounting instructions/Description



Accessories

P1-Ri-QR20

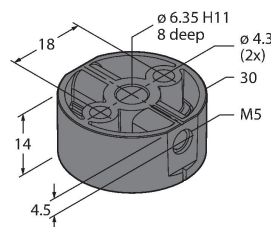
1593041



Positioning element for encoder RI-QR20, for Ø 6 mm shafts

P2-Ri-QR20

1593042



Positioning element for encoder RI-QR20, for Ø 6.35 mm shafts