

Your Global Automation Partner

TURCK

Ri360-QR20

Miniature Encoder with 4...20 mA



Contactless measuring principle

Turck is expanding its encoder portfolio by adding the robust Ri360-QR20 product series with 4...20 mA output signal. Like its "big brother" QR24, this encoder with IP68/IP69K protection is based on the contactless resonator measuring principle and is therefore absolutely wear-free, even in environments with extremely fine dust. The devices are ideally suited for recording the actual position values of dancer rollers, for example on printing, packaging, textile or wire-winding machines.

The highlight is the compact housing, measuring just 71 x 64 x 20 mm, that completely surrounds the positioning element and fully seals it off from the outside. Alternatively, the position element can also be positioned above the housing. This design principle promises a high degree of flexi-

bility in terms of mounting. Selecting the covered mounting option not only protects against the ingress of dust or moisture, but also provides mechanical protection for the shaft. The housing is also permanently sealed. There are no areas where the seal could potentially fail, such as LED lenses, because the QR20 is made of a translucent plastic that keeps the integrated status LEDs visible at all times.

The Ri-QR20 offers a resolution of 0.09° and outputs the respective angle positions using a 4...20 mA analog output. If the positioning element cannot be detected, the output signal passes to an error level of 22 mA. Damage can thus be reported directly to the control system for easy and quick diagnostics.

Your benefits

- Maintenance-free
- No protective or auxiliary constructions required
- Simple diagnostics
- High mounting flexibility

Ri360-QR20 – Miniature Encoder with 4...20 mA

Analog output 4...20 mA

Dimensions	Type designation	Ident-No.	Measuring range
	RI360P1-QR20-LI2X2	100004573	0...360°
	RI20P1-QR20-LI2X2	100004574*	-10...10°
	RI40P1-QR20-LI2X2	100004575*	-20...20°
	RI60P1-QR20-LI2X2	100004576*	-30...30°
	RI90P1-QR20-LI2X2	100004577*	-45...45°
	RI120P1-QR20-LI2X2	100004578	-60...60°
	RI240P1-QR20-LI2X2	100004579*	-120...120°
	RI360P1-QR20-LI2X2-H1141	100004587	0...360°
	RI20P1-QR20-LI2X2-H1141	100004588*	-10...10°
	RI40P1-QR20-LI2X2-H1141	100004589*	-20...20°
	RI60P1-QR20-LI2X2-H1141	100004590	-30...30°
	RI90P1-QR20-LI2X2-H1141	100004591*	-45...45°
	RI120P1-QR20-LI2X2-H1141	100004592	-60...60°
	RI240P1-QR20-LI2X2-H1141	100004593	-120...120°

Positioning element included in the scope of delivery

* Availability on request

Accessories

Dimensions	Type designation	Ident-No.
	4-wire connecting cable with M12 x 1 connector, RKS4.4T-2/TXL	6626333

