TURCK

QR24 INCR
Incremental Encoder

Encoder with Fixed Pulse Rate

Turck is expanding its portfolio of inductive encoders by adding the INCR variant with fixed pulse rate to the QR24 series. This allows the user to directly order the exact resolution required for their application ex works, regardless of whether they are replacing an existing encoder solution or installing a new one. Manual configuration of a specific resolution using Easy-Teach or Pactware is no longer required with the preset QR24 models.

All resolutions between 1 and 5000 pulses per revolution are available on request. Particularly common resolutions are kept in stock an can be delivered in stand-by. This includes the following standard resolutions: 360, 512, 1000, 1024, 2048, 2500, 3600, 4096 and 5000 pulses per revolution. The following versions are also available at short notice:

1, 5, 6, 8, 10, 12, 36, 64, 100, 200, 250, 256, 400, 500, 600, 800, 1200 and 2000 pulses per revolution.

As you would expect, the INCR variants also feature other Easy-Teach functions such as burst, change the rotational direction and setting the zero pulse. A factory reset restores the familiar settings.

The rugged sensors in the QR24 series are wear and tear-free thanks to the contactless operating principle. They convince through their excellent repeatability, resolution and linearity within a broad temperature range.

Advantages

- Preferred pulse rate parameterized ex works
- Common pulse rates ready for immediate dispatch
- Robust housing and versatile mounting options
- Position of z-track set via Easy-Teach
- Wear-free thanks to the contactless operating principle

QR24 INCR — Incremental Encoder

Product highlights

- Robust and permanently leak-proof housing in IP67/IP69K
- Status displayed via LED
- Burst function, absolute angular position output incrementally per Easy-Teach pulse

Dimensions	Type code	Ri360P0-QR24M0-XXXX-H1181
	Output type	Incremental, push-pull
	Shaft diameter	6…20 mm
	IP protection class	IP67/IP69K
	Resolution	1…5000 (type-dependent)
	Sampling rate	1000 Hz
	Operating voltage	10…30 VDC
	Current consumption	max. 100 mA

Dimensions diagram labels: ø 65, ø 78, ø 22, ø 4.3, LED, 24, M12 x 1, 42.3, 81, 10

Type Code

Ri	360	P0	–	QR24	M0	–	0360	X2	–	H1	1	8	1

Ri	360	P0	Functional principle	–	QR24	M0	Construction	–	0360	X2	Electrical version	–

Number of LEDs
X2   2 x LEDs

Interface
INCR   Push-pull A, B, $\overline{A}$, $\overline{B}$, Z
0001   Fixed preset value: 1 pulse per revolution
0360   as an example
…to
5000   Fixed preset value: 5000 pulses per revolution

H1	1	8	1	Electrical connection

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60 representations worldwide!

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