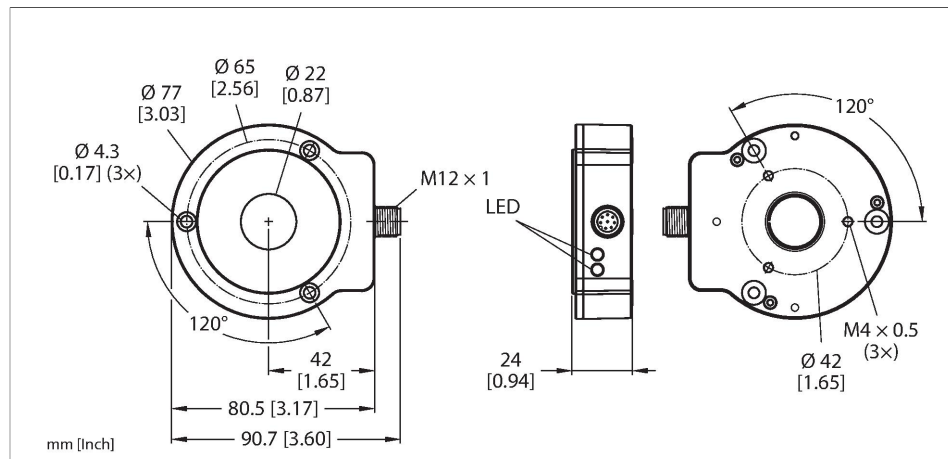


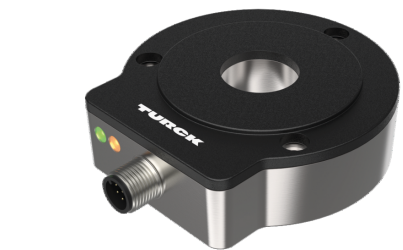
# RI360P0-EQR24M0-INCRX2-H1181

## Contactless Encoder with Stainless Steel Housing – Incremental: 1 ... 5000 ppr Premium Line



### Technical data

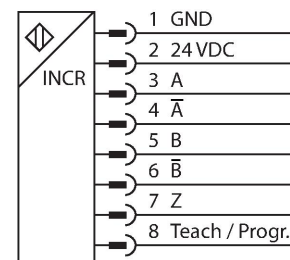
|                                             |                                                                                                       |
|---------------------------------------------|-------------------------------------------------------------------------------------------------------|
| Type                                        | RI360P0-EQR24M0-INCRX2-H1181                                                                          |
| ID                                          | 1590912                                                                                               |
| Measuring principle                         | Inductive                                                                                             |
| <b>General data</b>                         |                                                                                                       |
| Max. rotational speed                       | 10,000 rpm                                                                                            |
|                                             | Determined with standardized construction, with a steel shaft Ø 20 mm, L = 50 mm and reducer Ø 20 mm. |
| Starting torque shaft load (radial / axial) | not applicable, because of contactless measuring principle                                            |
| Nominal distance                            | 1.5 mm                                                                                                |
| Repeat accuracy                             | ≤ 0.01 % of full scale                                                                                |
| Linearity deviation                         | ≤ 0.05 % f.s.                                                                                         |
| Temperature drift                           | ≤ ± 0.003 %/K                                                                                         |
| Output type                                 | Incremental                                                                                           |
| Resolution incremental                      | 1024 ppr                                                                                              |
| <b>Electrical data</b>                      |                                                                                                       |
| Operating voltage $U_B$                     | 10...30 VDC                                                                                           |
| Ripple $U_{ss}$                             | ≤ 10 % $U_{Bmax}$                                                                                     |
| Isolation test voltage                      | 0.5 kV                                                                                                |
| Short-circuit protection                    | yes/Cyclic                                                                                            |
| Wire break/reverse polarity protection      | yes/yes (voltage supply)                                                                              |
| Pulse frequency max.                        | 200 kHz                                                                                               |



### Features

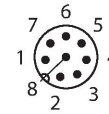
- Compact, rugged housing
- Active face, plastic PA12-GF30
- Housing, stainless steel V4A (1.4404)
- Status displayed via LED
- Immune to electromagnetic interference
- 1024 pulses per revolution (default)
- 360, 512, 1000, 1024, 2048, 2500, 3600, 4096, parametr. via Easy-Teach
- Free parametrization of the pulse number in the range from 1 to 5000 via PACTware™
- Position of z-track set via Easy-Teach
- Burst function, absolute angular position output incrementally per Easy-Teach pulse
- 10...30 VDC
- Male M12 x 1, 8-pin
- Push-pull A, B, Z, A (inverse), B (inverse)

### Wiring diagram



## Technical data

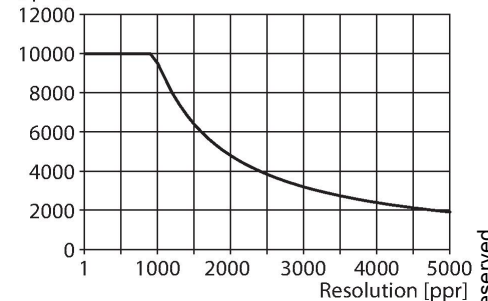
|                                             |                                                                       |
|---------------------------------------------|-----------------------------------------------------------------------|
| Signal level high                           | min. $U_b$ - 2 V                                                      |
| Signal level low                            | max. 2.0 V                                                            |
| Output function                             | 8-pin, Push-Pull/HTL                                                  |
| Sample rate                                 | 1000 Hz                                                               |
| Current consumption                         | < 100 mA                                                              |
| <b>Mechanical data</b>                      |                                                                       |
| Design                                      | EQR24                                                                 |
| Dimensions                                  | 81 x 78 x 24 mm                                                       |
| Flange type                                 | Flange without mounting element                                       |
| Shaft Type                                  | Hollow shaft                                                          |
| Shaft diameter D (mm)                       | 6<br>6.35<br>9.525<br>10<br>12<br>12.7<br>14<br>15.875<br>19.05<br>20 |
| Housing material                            | Stainless-steel/Plastic, 1.4404 (AISI 316L)/PA12-GF30                 |
| Electrical connection                       | Connector, M12 × 1                                                    |
| <b>Environmental conditions</b>             |                                                                       |
| Ambient temperature                         | -25...+85 °C                                                          |
|                                             | Acc. to UL approval to +70 °C                                         |
| 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 × each; 3 axes                                 |
| Continuous shock resistance (EN 60068-2-29) | 40 g; 6 ms ½ sine; 4000 × each; 3 axes                                |
| Protection class                            | IP68<br>IP69K                                                         |
| MTTF                                        | 138 years acc. to SN 29500 (Ed. 99) 40 °C                             |
| Power-on indication                         | LED, Green                                                            |
| Measuring range display                     | LED, yellow, yellow flashing                                          |
| Included in delivery                        | Adapter sleeve MT-QR24                                                |
| UL certificate                              | E210608                                                               |



## Functional principle

The measuring principle of inductive angle sensors is based on oscillation circuit coupling between the positioning element and the sensor, whereby an output signal is provided proportional to the angle of the positioning element. The rugged sensors are wear and maintenance-free, thanks to the contactless operating principle. They convince through their excellent repeatability, resolution and linearity within a broad temperature range. The innovative technology ensures a high immunity to electromagnetic DC and AC fields.

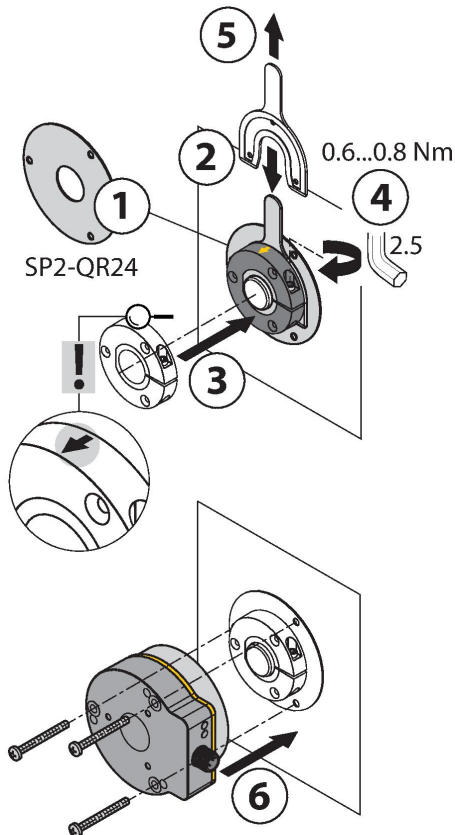
Rotation speed  
[rpm]



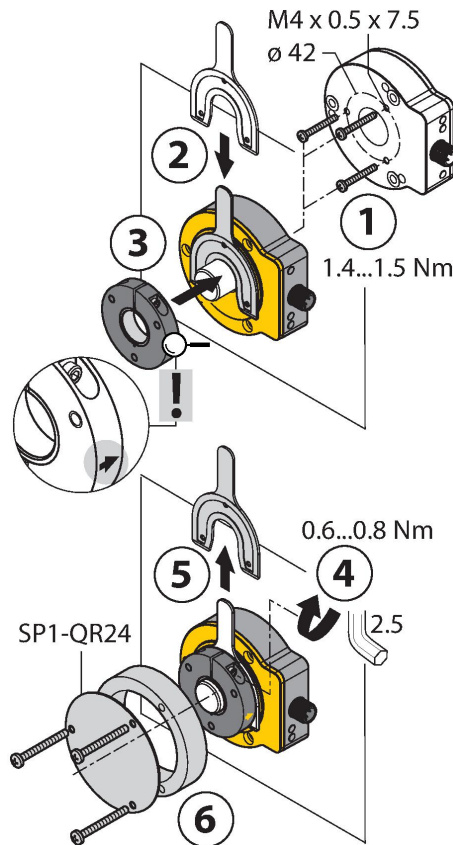
## Mounting instructions

### Mounting instructions/Description

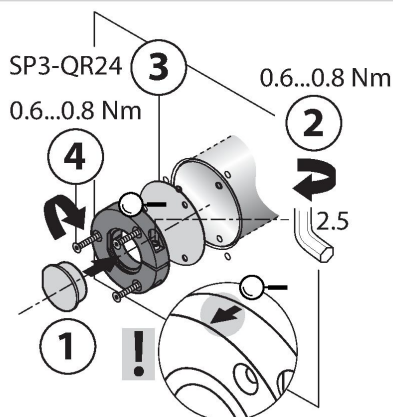
**A**



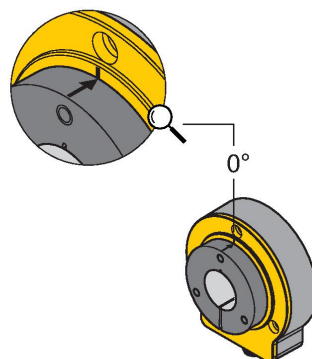
**B**



**C**



**Default: 0°**



The extensive range of mounting accessories enables easy adaptation to many different shaft diameters. Due to the measuring principle, which is based on the functional principle of an RLC coupling, the encoder is immune to magnetized ferrous chips and other interferences. As a result, there are few possible causes of error during mounting. The adjacent figures show the simple installation of the two separate units: the sensor element and the positioning element:

**Mounting option A:**

First, connect the positioning element to the rotatable shaft using the bracket. Then place the encoder with the aluminum ring above the rotating part in such a way that you get a closed and protected unit.

**Mounting option B:**

Slide the encoder backward onto the shaft and fasten it to the machine. Then fasten the positioning element to the shaft using the bracket.

**Mounting option C:**

If the positioning element is screwed onto a rotating machine part rather than being put on a shaft, you must first insert the dummy plug RA8-QR24. Then tighten the bracket. Next, mount the encoder via the three bores.

Due to the separate installation of positioning element and sensor, no electrical currents or harmful mechanical forces are transmitted to the sensor via the shaft. The encoder also offers a high degree of protection throughout its service life and stays permanently sealed. During commissioning, the accessories included in the delivery help to mount the encoder and the positioning element at an optimal distance from each other. In addition, LEDs indicate the status. Optionally, you can use the shield plates included in the accessories to increase the permitted distance between the positioning element and the sensor.

**Status display via LED**

**Green:**

Sensor is being supplied properly

**Yellow:**

Positioning element is within the measuring range, low signal quality (e.g. distance too great)

**Yellow flashing:**

Positioning element is outside the detection range

**Off:**

Positioning element is within the measuring range

## Individual Parameterization (Teaching with Positioning Element)

| Jumper between teach input Pin 8 | Gnd Pin 1                   | Ub Pin 2                              | LED                                            |
|----------------------------------|-----------------------------|---------------------------------------|------------------------------------------------|
| 2 s                              | Z-track zero point teaching | One-time triggering of burst function | Status LED flashes then turns steady after 2 s |
| 10 s                             | CCW rotation direction      | CW rotation direction                 | After 10 s status LED flashes fast for 2 s     |
| 15 s                             | -                           | Factory setting (z-track, CW)         | After 15 s power and status LED alternate      |

To avoid unintended teaching, keep pin 8 potential-free.

## Preset Programming Mode (Teaching without Positioning Element)

| Jumper between teach input Pin 8 | Gnd Pin 1                                      | Ub Pin 2                                       | LED                                                                      |
|----------------------------------|------------------------------------------------|------------------------------------------------|--------------------------------------------------------------------------|
|                                  | 2 s<br>Resolution setting mode active for 10 s | 2 s<br>Resolution setting mode active for 10 s | Status LED steady, flashes after 2 s as long as selection mode is active |
| 360 pulses/360°                  | Start value                                    |                                                | 1 x flashing                                                             |
| 512 pulses/360°                  | Press once                                     |                                                | 2 x flashing                                                             |
| 1000 pulses/360°                 | Press twice                                    |                                                | 3 x flashing                                                             |
| 1024 pulses/360°                 | Press three times                              |                                                | 4 x flashing                                                             |
| 2048 pulses/360°                 | Press four times                               |                                                | 5 x flashing                                                             |
| 2500 pulses/360°                 |                                                | Start value                                    | 1 x flashing                                                             |
| 3600 pulses/360°                 |                                                | Press once                                     | 2 x flashing                                                             |
| 4096 pulses/360°                 |                                                | Press twice                                    | 3 x flashing                                                             |
| 5000 pulses/360°                 |                                                | Press three times                              | 4 x flashing                                                             |

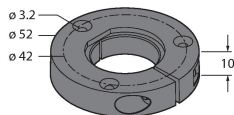
To avoid unintended teaching, keep pin 8 potential-free.

## Accessories

PE1-EQR24

1590966

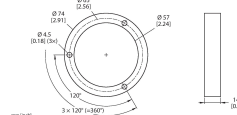
Positioning element with stainless steel compression fitting, without adapter sleeve



M5-QR24

1590965

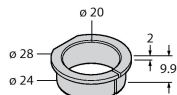
Plastic protecting ring for encoders RI-EQR24



RA1-EQR24

1593019

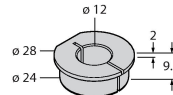
Stainless steel adapter sleeve, for Ø 20 mm shafts



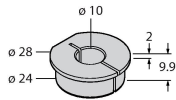
RA3-EQR24

1593020

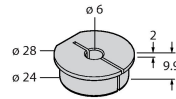
Stainless steel adapter sleeve, for Ø 12 mm shafts



**RA4-EQR24** 1593023  
Stainless steel adapter sleeve, for Ø 10 mm shafts



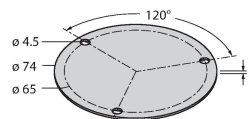
**RA5-EQR24** 100000375  
Stainless steel adapter sleeve, for Ø 6 mm shafts



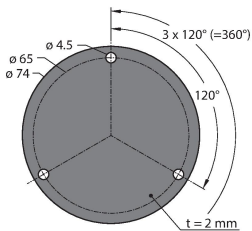
**RA8-EQR24** 100000289  
Stainless steel plug for mounting option C



**SP1-EQR24** 1590979  
Shield plate Ø 74 mm, stainless steel

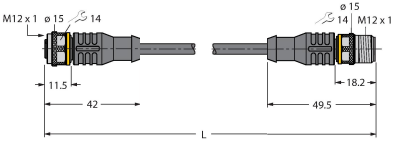


**SP5-QR24** 100003689  
Protective plate Ø 74 mm, plastic



## Wiring accessories

| Dimension drawing                                                                   | Type        | ID      |                                                                                                                                           |
|-------------------------------------------------------------------------------------|-------------|---------|-------------------------------------------------------------------------------------------------------------------------------------------|
|  | RKC8T-2/TFW | 6934668 | Connection cable, M12 female connector, straight, 8-pin, stainless steel coupling nut, cable length: 2 m, jacket material: PP-EPDM, white |
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|                                                                                     | RKC8T-2/TFW | 6934668 |                                                                                                                                           |
|                                                                                     | RKC8T-2/TFW | 6934668 |                                                                                                                                           |
|                                                                                     | RKC8T-2/TFW | 6934668 |                                                                                                                                           |
|                                                                                     | RKC8T-2/TFW | 6934668 |                                                                                                                                           |
|                                                                                     | RKC8T-2/TFW | 6934668 |                                                                                                                                           |
|                                                                                     | RKC8T-2/TFW | 6934668 |                                                                                                                                           |
|                                                                                     | RKC8T-2/TFW | 6934668 |                                                                                                                                           |
|                                                                                     | RKC8T-2/TFW | 6934668 |                                                                                                                                           |
|                                                                                     | RKC8T-2/TFW | 6934668 |                                                                                                                                           |
|                                                                                     | RKC8T-2/TFW | 6934668 |                                                                                                                                           |
|                                                                                     | RKC8T-2/TFW | 6934668 |                                                                                                                                           |
|                                                                                     | RKC8T-2/TFW | 6934668 |                                                                                                                                           |
|                                                                                     | RKC8T-2/TFW | 6934668 |                                                                                                                                           |
|                                                                                     | RKC8T-2/TFW | 6934668 |                                                                                                                                           |
|                                                                                     | RKC8T-2/TFW | 6934668 |                                                                                                                                           |
|                                                                                     | RKC8T-2/TFW | 6934668 |                                                                                                                                           |
|                                                                                     | RKC8T-2/TFW | 6934668 |                                                                                                                                           |
|                                                                                     | RKC8T-2/TFW | 6934668 |                                                                                                                                           |
|                                                                                     | RKC8T-2/TFW | 6934668 |                                                                                                                                           |
|                                                                                     | RKC8T-2/TFW | 6934668 |                                                                                                                                           |
|                                                                                     | RKC8T-2/TFW | 6934668 |                                                                                                                                           |
|                                                                                     | RKC8T-2/TFW | 6934668 |                                                                                                                                           |
|                                                                                     | RKC8T-2/TFW | 6934668 |                                                                                                                                           |
|                                                                                     | RKC8T-2/TFW | 6934668 |                                                                                                                                           |
|                                                                                     | RKC8T-2/TFW | 6934668 |                                                                                                                                           |
|                                                                                     | RKC8T-2/TFW | 6934668 |                                                                                                                                           |
|                                                                                     | RKC8T-2/TFW | 6934668 |                                                                                                                                           |
|                                                                                     | RKC8T-2/TFW | 6934668 |                                                                                                                                           |
|                                                                                     | RKC8T-2/TFW | 6934668 |                                                                                                                                           |
|                                                                                     | RKC8T-2/TFW | 6934668 |                                                                                                                                           |
|                                                                                     | RKC8T-2/TFW | 6934668 |                                                                                                                                           |
|                                                                                     | RKC8T-2/TFW | 6934668 |                                                                                                                                           |
|                                                                                     | RKC8T-2/TFW | 6934668 |                                                                                                                                           |
|                                                                                     | RKC8T-2/TFW | 6934668 |                                                                                                                                           |
|                                                                                     | RKC8T-2/TFW | 6934668 |                                                                                                                                           |
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|                                                                                     | RKC8T-2/TFW | 6934668 |                                                                                                                                           |
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|                                                                                     | RKC8T-2/TFW | 6934668 |                                                                                                                                           |
|                                                                                     |             |         |                                                                                                                                           |

| Dimension drawing                                                                 | Type                       | ID      |                                                                                                                                                                                                                                                           |
|-----------------------------------------------------------------------------------|----------------------------|---------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|  | RKC8.302T-1.5-RSC4T/TXL320 | 6625003 | Adapter cable to connect sensor to USB-2-IOL-0002 programming unit; M12 female connector, straight, 8-pin to M12 male connector, straight, 3-pin; cable length: 1.5 m; jacket material: PUR, black; cULus approved; RoHS compliant; protection class IP67 |