

REI-05IA0T-2H200-H1181  
Incremental Encoder  
Industrial Line



Technical data

|                                  |                                         |
|----------------------------------|-----------------------------------------|
| Type                             | REI-05IA0T-2H200-H1181                  |
| ID                               | 100011181                               |
| Measuring principle              | Optical                                 |
| General data                     |                                         |
| Max. Rotational Speed            | 6000 rpm                                |
| Moment of inertia of the rotor   | 0.2 × 10 <sup>-5</sup> kgm <sup>2</sup> |
| Starting torque                  | < 0.05 Nm                               |
| Output type                      | Incremental                             |
| Resolution incremental           | 200 ppr                                 |
| Electrical data                  |                                         |
| Operating voltage U <sub>B</sub> | 8...30 VDC                              |
| No-load current                  | ≤ 40 mA                                 |
| Output current                   | ≤ 50 mA                                 |
| Short-circuit protection         | yes                                     |
| Pulse frequency max.             | 200 kHz                                 |
| Signal level high                | min. U <sub>B</sub> - 3 V               |
| Signal level low                 | max. 0.5 V                              |
| Output function                  | Push-Pull/HTL, invertable               |
| Mechanical data                  |                                         |
| Flange type                      | Flange with mounting element            |
| Flange diameter                  | Ø 36.5 mm                               |
| Shaft Type                       | Blind hole shaft                        |
| Shaft diameter D (mm)            | 6.35                                    |
|                                  | Hollow shaft                            |
| Shaft material                   | Brass                                   |
| Housing material                 | Aluminum chromated                      |

Features

- Flange with mounting element, Ø 36.5 mm
- Hollow shaft, Ø 6.35 mm
- Optical measuring principle
- Shaft material: Brass
- Protection class shaft IP50
- Protection class housing IP65
- -20...+85 °C
- Max. 6000 rpm
- 8...30 VDC
- Push-pull/HTL invertible
- Pulse frequency max. 200 kHz
- M12 × 1 male connector, 8-pin
- 200 pulses per revolution

Wiring diagram



Technical data

|                                     |                        |
|-------------------------------------|------------------------|
| Electrical connection               | Connector, M12 × 1     |
|                                     | 8-pin                  |
| Axial shaft load                    | 20 N                   |
| Radial shaft load                   | 40 N                   |
| Environmental conditions            |                        |
| Ambient temperature                 | -20...+85 °C           |
| Vibration resistance (EN 60068-2-6) | 100 m/s², 55...2000 Hz |
| Shock resistance (EN 60068-2-27)    | 1000 m/s², 6 ms        |
| Protection class                    | IP65                   |
| Protection class shaft              | IP50                   |

Accessories

RME-31544614



Stainless steel stator coupling for hollow shaft encoders, reference diameter 46 mm, for highly dynamic applications with axial and radial play

RME-131544624



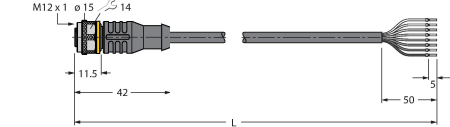
Plastic mounting element for hollow shaft encoders, pitch diameter 42 mm, for applications with limited axial play, low dynamics and limited mounting space

RME-141544625



Plastic mounting element for hollow shaft encoders, pitch diameters 44 mm, 60 mm, 63 mm, 65 mm, for low dynamic applications with high axial play.

Accessories

| Dimension drawing                                                                   | Type        | ID      |                                                                                                                         |
|-------------------------------------------------------------------------------------|-------------|---------|-------------------------------------------------------------------------------------------------------------------------|
|  | RKC8T-2/TXL | 6625142 | Connection cable, M12 female connector, straight, 8-pin, cable length: 2 m, jacket material: PUR, black; cULus approval |

| Dimension drawing                                                                 | Type        | ID      |                                                                                                                       |
|-----------------------------------------------------------------------------------|-------------|---------|-----------------------------------------------------------------------------------------------------------------------|
|  | WKC8T-2/TXL | 6625145 | Connection cable, M12 female connector, angled, 8-pin, cable length: 2 m, jacket material: PUR, black; cULus approval |