

REI-43H40S-4C2500-H1181
Incremental Encoder
Industrial Line



Technical data

Type	REI-43H40S-4C2500-H1181
ID	100011476
Measuring principle	Optical
General data	
Max. rotational speed	6000 rpm
Moment of inertia of the rotor	220 × 10 ⁻⁶ kgm ²
Starting torque	< 0.2 Nm
Output type	Incremental
Resolution incremental	2500 ppr
Electrical data	
Operating voltage U _B	10...30 VDC
No-load current	≤ 120 mA
Output current	≤ 20 mA
Short-circuit protection	yes
Wire break/reverse polarity protection	yes
Pulse frequency max.	300 kHz
Signal level high	min. 2.5 V
Signal level low	max. 0.5 V
Output function	8-wire, RS422/TTL, invertable
Mechanical data	
Flange type	Flange without mounting element
Flange diameter	Ø 100 mm
Shaft Type	Hollow shaft
Shaft diameter D (mm)	40
Shaft material	Stainless steel
Housing material	Die-cast zinc

Features

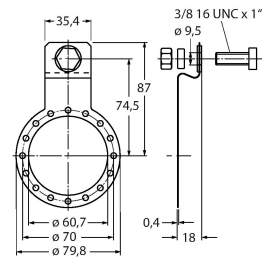
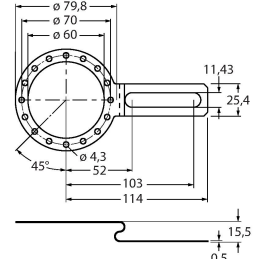
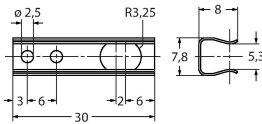
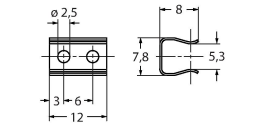
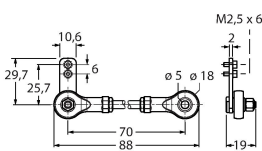
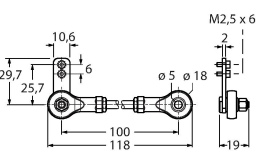
- Flange without mounting element, Ø 100 mm
- Hollow shaft, Ø 40 mm
- Optical measuring principle
- Shaft material: stainless steel
- Protection class IP65 on housing and shaft side
- -40 ... +80 °C
- Max. 6000 rpm (at 60 °C: 2500 rpm)
- 10...30 VDC
- RS422/TTL invertible
- Pulse frequency max. 300 kHz
- M12 × 1 male connector, 8-pin
- 2500 pulses per revolution



Technical data

Electrical connection	Connector, M12 × 1
	8-pin
Axial shaft load	100 N
Radial shaft load	200 N
Environmental conditions	
Ambient temperature	-40...+80 °C
Vibration resistance (EN 60068-2-6)	10 g (100 m/s²), 10...2000 Hz
Shock resistance (EN 60068-2-27)	200 g (2000 m/s²), 6 ms
Protection class	IP65
Protection class shaft	IP65

Accessories

RME-5	1544616	 Technical drawing of the RME-5 stainless steel mounting panel. It shows a circular panel with a central hole and eight mounting holes. Dimensions include a central hole diameter of 70 mm, an outer diameter of 79.8 mm, and a mounting hole diameter of 9.5 mm. A 3/8 16 UNC x 1" screw is shown for mounting.	Stainless steel mounting panel for hollow shaft encoders, reference diameter 149 mm, for applications with axial play
RME-6	1544617	 Technical drawing of the RME-6 stainless steel mounting panel. It shows a circular panel with a central hole and eight mounting holes. Dimensions include a central hole diameter of 70 mm, an outer diameter of 79.8 mm, and a mounting hole diameter of 9.5 mm. A 3/8 16 UNC x 1" screw is shown for mounting.	Stainless steel mounting panel for hollow shaft encoders, reference diameter 104...206 mm, for applications with fixing points on adjustable reference diameter
RME-10	1544621	 Technical drawing of the RME-10 stainless steel mounting element. It shows a rectangular element with a central hole and two mounting holes. Dimensions include a central hole diameter of 110 mm, a pitch diameter of 110 mm, and a mounting hole diameter of 9.5 mm.	Stainless steel mounting element for hollow shaft encoders, pitch diameter 110 mm, for applications with high axial play
RME-11	1544622	 Technical drawing of the RME-11 stainless steel mounting element. It shows a rectangular element with a central hole and two mounting holes. Dimensions include a central hole diameter of 110 mm, a pitch diameter of 110 mm, and a mounting hole diameter of 9.5 mm.	Stainless steel mounting element for hollow shaft encoders, pitch diameter 76 mm, for applications with limited mounting space
RME-15	1544626	 Technical drawing of the RME-15 metal arm bracket. It shows a metal arm with a central hole and two mounting holes. Dimensions include a central hole diameter of 110 mm, a pitch diameter of 110 mm, and a mounting hole diameter of 9.5 mm.	Metal arm bracket, for hollow shaft encoders, length 70 mm; for applications with little axial and radial play; flexibly adjustable
RME-16	1544627	 Technical drawing of the RME-16 metal arm bracket. It shows a metal arm with a central hole and two mounting holes. Dimensions include a central hole diameter of 110 mm, a pitch diameter of 110 mm, and a mounting hole diameter of 9.5 mm.	Metal arm bracket, for hollow shaft encoders, length 100 mm; for applications with little axial and radial play; flexibly adjustable

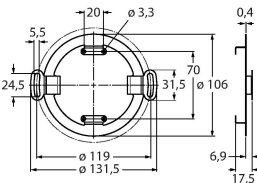
RME-171544628

Metal arm bracket, for hollow shaft encoders, length 150 mm; for applications with little axial and radial play; flexibly adjustable



RME-181544629

Stainless steel stator coupling for hollow shaft encoders, reference diameter 119 mm, for highly dynamic applications with axial and radial 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
	WKC8T-2/TXL	6625145	Connection cable, M12 female connector, angled, 8-pin, cable length: 2 m, jacket material: PUR, black; cULus approval