

REI-43H40S-4C1024-H1181
Incremental Encoder
Industrial Line



Technical data

Type	REI-43H40S-4C1024-H1181
ID	100011472
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	1024 ppr
Electrical data	
Operating voltage	10...30 VDC
No-load current	120 mA
Output current	≤ 20 mA
Short-circuit protection	yes
Pulse frequency max.	300 kHz
Signal level high	min. 2.5 V
Signal level low	max. 0.5 V
Output function	RS422/TTL, invertable
Mechanical data	
Design	Hollow shaft
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
- 1024 pulses per revolution

Wiring diagram

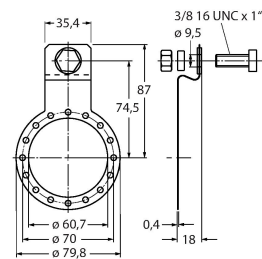


Technical data

Electrical connection	Connector, M12 × 1
	8-pin
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

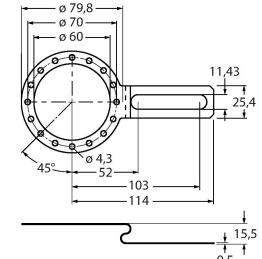
RME-51544616



Technical drawing of the RME-5 stainless steel mounting panel. It shows a circular panel with a central hole of diameter 60.7 mm and an outer diameter of 79.8 mm. The panel has a thickness of 18 mm. A 3/8 16 UNC x 1" screw is shown passing through the panel. Dimensions include 35.4 mm for the top hole offset, 87 mm for the total height, 74.5 mm for the mounting flange height, 0.4 mm for the flange thickness, and 9.5 mm for the hole offset.

Stainless steel mounting panel for hollow shaft encoders, reference diameter 149 mm, for applications with axial play

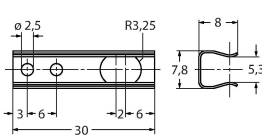
RME-61544617



Technical drawing of the RME-6 stainless steel mounting panel. It shows a circular panel with a central hole of diameter 60 mm and an outer diameter of 79.8 mm. The panel has a thickness of 15.5 mm. A 3/8 16 UNC x 1" screw is shown passing through the panel. Dimensions include 79.8 mm for the outer diameter, 60 mm for the inner diameter, 11.43 mm for the mounting flange height, 25.4 mm for the flange thickness, 4.3 mm for the hole offset, 52 mm for the hole offset, 103 mm for the hole offset, 114 mm for the hole offset, and 0.5 mm for the flange thickness.

Stainless steel mounting panel for hollow shaft encoders, reference diameter 104...206 mm, for applications with fixing points on adjustable reference diameter

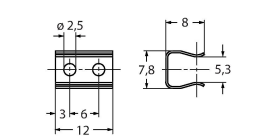
RME-101544621



Technical drawing of the RME-10 stainless steel mounting element. It shows a rectangular element with a length of 30 mm and a width of 12 mm. The element has a thickness of 5.3 mm. Dimensions include 2.5 mm for the hole offset, 8 mm for the hole offset, 7.8 mm for the hole offset, 5.3 mm for the hole offset, and 3 mm for the hole offset.

Stainless steel mounting element for hollow shaft encoders, pitch diameter 110 mm, for applications with high axial play

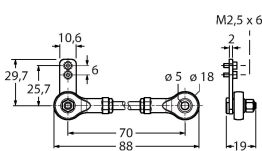
RME-111544622



Technical drawing of the RME-11 stainless steel mounting element. It shows a rectangular element with a length of 12 mm and a width of 12 mm. The element has a thickness of 5.3 mm. Dimensions include 2.5 mm for the hole offset, 8 mm for the hole offset, 7.8 mm for the hole offset, 5.3 mm for the hole offset, and 3 mm for the hole offset.

Stainless steel mounting element for hollow shaft encoders, pitch diameter 76 mm, for applications with limited mounting space

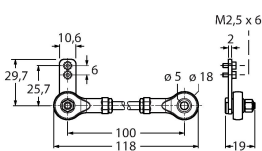
RME-151544626



Technical drawing of the RME-15 metal arm bracket. It shows a bracket with a length of 70 mm and a width of 19 mm. The bracket has a thickness of 1.9 mm. Dimensions include 10.6 mm for the hole offset, 29.7 mm for the hole offset, 25.7 mm for the hole offset, 6 mm for the hole offset, 5 mm for the hole offset, 18 mm for the hole offset, and 19 mm for the hole offset.

Metal arm bracket, for hollow shaft encoders, length 70 mm; for applications with little axial and radial play; flexibly adjustable

RME-161544627

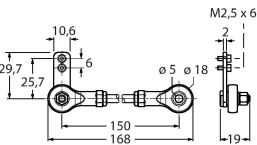


Technical drawing of the RME-16 metal arm bracket. It shows a bracket with a length of 100 mm and a width of 19 mm. The bracket has a thickness of 1.9 mm. Dimensions include 10.6 mm for the hole offset, 29.7 mm for the hole offset, 25.7 mm for the hole offset, 6 mm for the hole offset, 5 mm for the hole offset, 18 mm for the hole offset, and 19 mm for the hole offset.

Metal arm bracket, for hollow shaft encoders, length 100 mm; for applications with little axial and radial play; flexibly adjustable

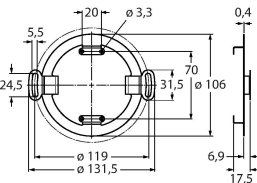
RME-171544628

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