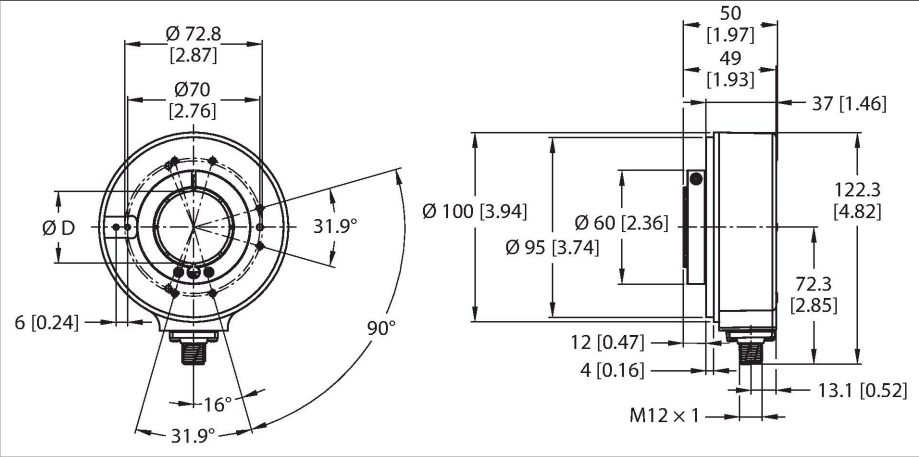


REI-43H42S-4C1024-H1181
Incremental Encoder
Industrial Line

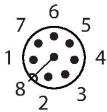
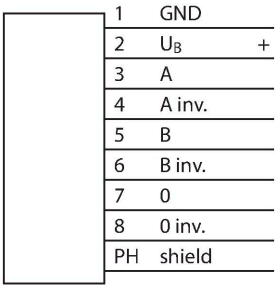


Technical data

Type	REI-43H42S-4C1024-H1181
ID	100011496
Measuring principle	Optical
General data	
Max. Rotational Speed	6000 rpm
Moment of inertia of the rotor	$220 \times 10^{-6} \text{ kgm}^2$
Starting torque	< 0.2 Nm
Output type	Incremental
Resolution incremental	1024 ppr
Electrical data	
Operating voltage U_B	10...30 VDC
No-load current	$\leq 120 \text{ mA}$
Output current	$\leq 20 \text{ mA}$
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	$\varnothing 100 \text{ mm}$
Shaft Type	Blind hole shaft
Shaft diameter D (mm)	42
Shaft material	Stainless steel
Housing material	Die-cast zinc

Features

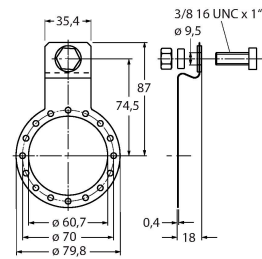
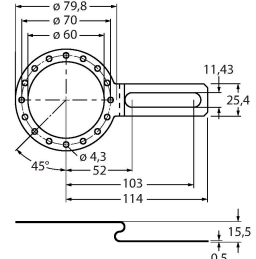
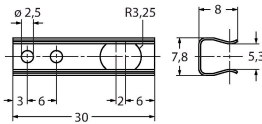
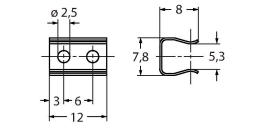
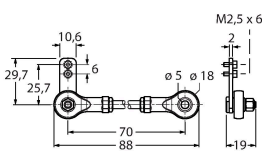
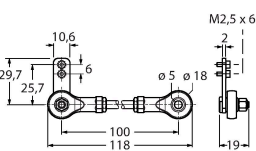
- Flange without mounting element, $\varnothing 100 \text{ mm}$
- Hollow shaft, $\varnothing 42 \text{ mm}$
- Optical measuring principle
- Shaft material: stainless steel
- Protection class IP65 on housing and shaft side
- -40 ... +80 °C
- Max. 6000 rpm (at 60 °C: 2500 rpm)
- 10...30 VDC
- RS422/TTL invertible
- Pulse frequency max. 300 kHz
- M12 x 1 male connector, 8-pin
- 1024 pulses per revolution



Technical data

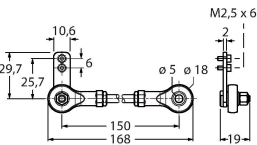
Electrical connection	Connector, M12 × 1
	8-pin
Axial shaft load	100 N
Radial shaft load	200 N
Environmental conditions	
Ambient temperature	-40...+80 °C
Vibration resistance (EN 60068-2-6)	10 g (100 m/s²), 10...2000 Hz
Shock resistance (EN 60068-2-27)	200 g (2000 m/s²), 6 ms
Protection class	IP65
Protection 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 of diameter 70 mm and an outer diameter of 79.8 mm. The panel has a thickness of 3.54 mm. A 3/8 16 UNC x 1" bolt is shown passing through the panel. Other dimensions include 87 mm, 74.5 mm, 60.7 mm, 9.5 mm, 0.4 mm, and 18 mm.	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 of diameter 70 mm and an outer diameter of 79.8 mm. The panel has a thickness of 3.54 mm. A 3/8 16 UNC x 1" bolt is shown passing through the panel. Other dimensions include 87 mm, 74.5 mm, 60.7 mm, 9.5 mm, 0.4 mm, and 18 mm.	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 width of 30 mm and a height of 8 mm. The element has a central hole of diameter 2.5 mm and a radius of R3.25. Other dimensions include 6 mm, 2 mm, 6 mm, 7.8 mm, and 5.3 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 width of 12 mm and a height of 8 mm. The element has a central hole of diameter 2.5 mm and a radius of R3.25. Other dimensions include 6 mm, 2 mm, 6 mm, 7.8 mm, and 5.3 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 bracket with a length of 70 mm and a width of 19 mm. The bracket has a central hole of diameter 5 mm and a radius of R3.25. Other dimensions include 10.6 mm, 29.7 mm, 25.7 mm, 6 mm, 18 mm, and 2 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 bracket with a length of 100 mm and a width of 19 mm. The bracket has a central hole of diameter 5 mm and a radius of R3.25. Other dimensions include 10.6 mm, 29.7 mm, 25.7 mm, 6 mm, 18 mm, and 2 mm.	Metal arm bracket, for hollow shaft encoders, length 100 mm; for applications with little axial and radial play; flexibly adjustable

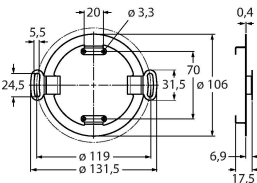
RME-171544628

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