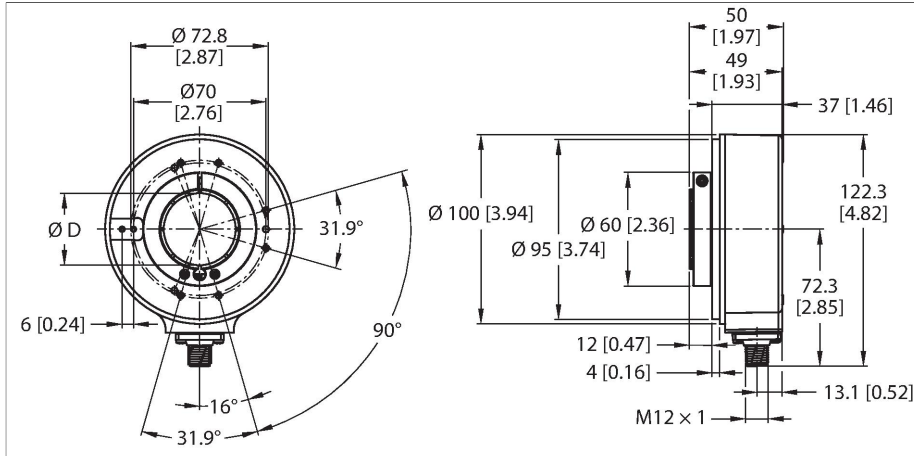


REI-43H40S-2B1500-H1181

Incremental Encoder

Industrial Line



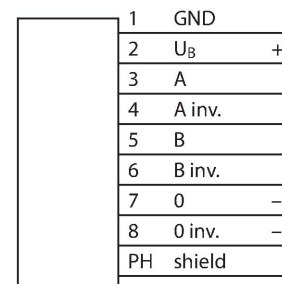
Features

- 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
- Push-pull/HTL invertible
- Pulse frequency max. 300 kHz
- M12 × 1 male connector, 8-pin
- 1500 pulses per revolution

Technical data

Type	REI-43H40S-2B1500-H1181
ID	100011461
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	1500 ppr
Electrical data	
Operating voltage	10...30 VDC
No-load current	100 mA
Output current	≤ 30 mA
Short-circuit protection	yes
Wire breakage/Reverse polarity protection	yes
Pulse frequency max.	300 kHz
Signal level high	min. U _B - 3 V
Signal level low	max. 2.5 V
Output function	Push-Pull/HTL, 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

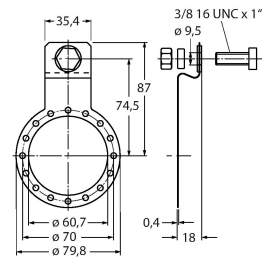
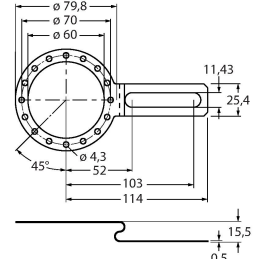
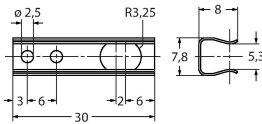
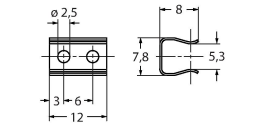
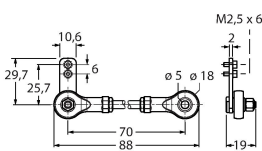
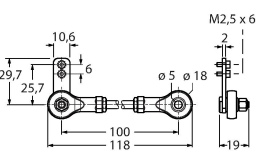
Wiring diagram



Technical data

Shaft material	Stainless steel
Housing material	Die-cast zinc
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-5	1544616	 Technical drawing of RME-5 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 18 mm. A 3/8 16 UNC x 1" screw is shown passing through the panel. Dimensions include 35.4 mm for the top flange, 87 mm for the total height, 74.5 mm for the mounting flange, 60.7 mm for the inner circle, and 0.4 mm for the flange thickness.	Stainless steel mounting panel for hollow shaft encoders, reference diameter 149 mm, for applications with axial play
RME-6	1544617	 Technical drawing of RME-6 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 18 mm. A 3/8 16 UNC x 1" screw is shown passing through the panel. Dimensions include 35.4 mm for the top flange, 87 mm for the total height, 74.5 mm for the mounting flange, 60.7 mm for the inner circle, and 0.4 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-10	1544621	 Technical drawing of RME-10 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. Dimensions include 3 mm for the hole offset, 6 mm for the hole diameter, and 5.3 mm for the hole depth.	Stainless steel mounting element for hollow shaft encoders, pitch diameter 110 mm, for applications with high axial play
RME-11	1544622	 Technical drawing of RME-11 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. Dimensions include 3 mm for the hole offset, 6 mm for the hole diameter, and 5.3 mm for the hole depth.	Stainless steel mounting element for hollow shaft encoders, pitch diameter 76 mm, for applications with limited mounting space
RME-15	1544626	 Technical drawing of 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. Dimensions include 10.6 mm for the hole offset, 29.7 mm for the hole diameter, 25.7 mm for the hole depth, and 6 mm for the hole radius.	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 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. Dimensions include 10.6 mm for the hole offset, 29.7 mm for the hole diameter, 25.7 mm for the hole depth, and 6 mm for the hole radius.	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