

REI-43H42S-2B1024-H1181
Incremental Encoder
Industrial Line



Technical data

Type	REI-43H42S-2B1024-H1181
ID	100011484
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 U _B	10...30 VDC
No-load current	≤ 100 mA
Output current	≤ 30 mA
Short-circuit protection	yes
Wire break/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	8-wire, Push-Pull/HTL, invertable
Mechanical data	
Flange type	Flange without mounting element
Flange diameter	Ø 100 mm
Shaft Type	Hollow shaft
Shaft diameter D (mm)	42
Shaft material	Stainless steel
Housing material	Die-cast zinc

Features

- Flange without mounting element, Ø 100 mm
- Hollow shaft, Ø 42 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
- 1024 pulses per revolution

1	GND
2	U _B +
3	A
4	A inv.
5	B
6	B inv.
7	0
8	0 inv.
PH	shield

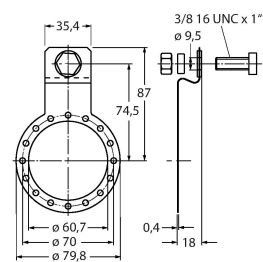


Technical data

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

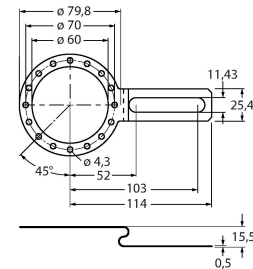
Accessories

RME-5 1544616



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

RME-6 1544617



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



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

RME-11 1544622



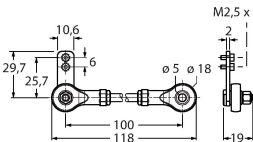
Stainless steel mounting element for hollow shaft encoders, pitch diameter 76 mm, for applications with limited mounting space

RME-15 1544626



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

RME-16 1544627



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

