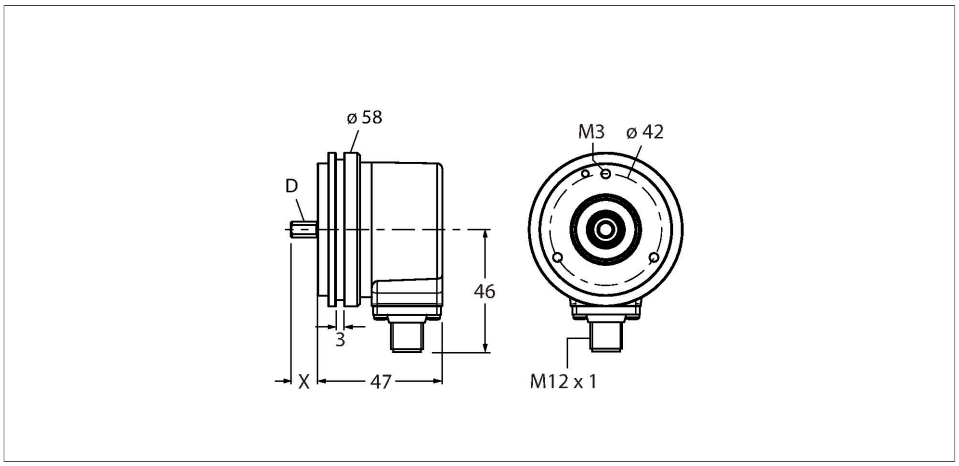
REI-10S6S-2B2500-H1181
Incremental Encoder
Industrial Line



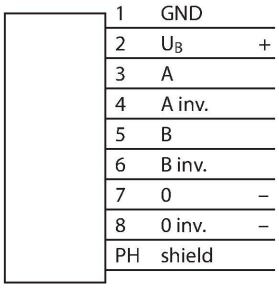
Technical data

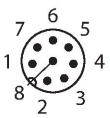
Type	REI-10S6S-2B2500-H1181
Ident. no.	100010293
Measuring principle	Optical
Max. Rotational Speed	6000 rpm
Moment of inertia of the rotor	1.8 x10^{-6} kgm^2
Starting torque	< 0.05 Nm
Ambient temperature	-40…+85 °C
Operating voltage	10…30 VDC
No-load current	≤ 100 mA
Output current	≤ 30 mA
Short-circuit protection	yes
Wire breakage/Reverse polarity protection	yes
Output type	Incremental
Resolution, incremental	2500 ppr
Pulse frequency max.	300 kHz
Signal level high	min. U_B - 1 V
Signal level low	max. 0.5 V
Output function	Push-Pull/HTL, with inverted signals
Design	Solid shaft
Flange type	Synchro flange
Flange diameter	Ø 58 mm
Shaft Type	Solid shaft
Shaft diameter D [mm]	6

Features

- Servo flange, Ø 58 mm
- Solid shaft, Ø 6mm x 10mm
- Optical measuring principle
- Shaft material, stainless steel
- Protection class IP67 on housing and shaft side
- -40…+85 °C
- Max. 6000 rpm (continuous operation 3000 rpm)
- 10…30 VDC
- Male connector, M12 x 1 , 8-pole
- Push-pull, with inverted signals
- Pulse frequency max. 300 kHz
- 2500 pulses per revolution

Wiring diagram





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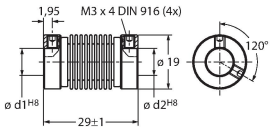
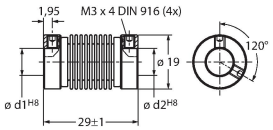
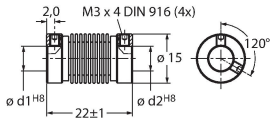
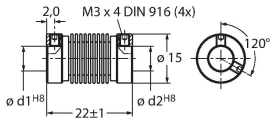
Technical data

Wavelength L [mm]	10
Shaft material	Stainless steel
Housing material	Die-cast zinc
Electrical connection	Connector, M12 × 1
	8-pin
Axial shaft load	50 N
Radial shaft load	100 N
Vibration resistance (EN 60068-2-6)	10 g (100 m/s²), 10…2000 Hz
Shock resistance (EN 60068-2-27)	3000 m/s², 6 ms
Protection class	IP67
Protection class shaft	IP67

Accessories

RCS-19-10-06	1545358		Bellows coupling, outer diameter: 19 mm, bore diameter: 10 mm/6 mm
RCS-19-06-06	1545360		Bellows coupling, outer diameter: 19 mm, bore diameter: 6 mm/6 mm
RCS-15-08-06	1545361		Bellows coupling, outer diameter: 15 mm, bore diameter: 8 mm/6 mm
RCS-15-06-04	1545363		Bellows coupling, outer diameter: 15 mm, bore diameter: 6 mm/4 mm

Wiring accessories

Dimension drawing	Type	Ident. no.	
	RKC8T-2/TXL	6625142	Connection cable, female M12, straight, 8-pin, cable length: 2 m, sheath material: PUR, black; cULus approval; other cable lengths and qualities available, see www.turck.com

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