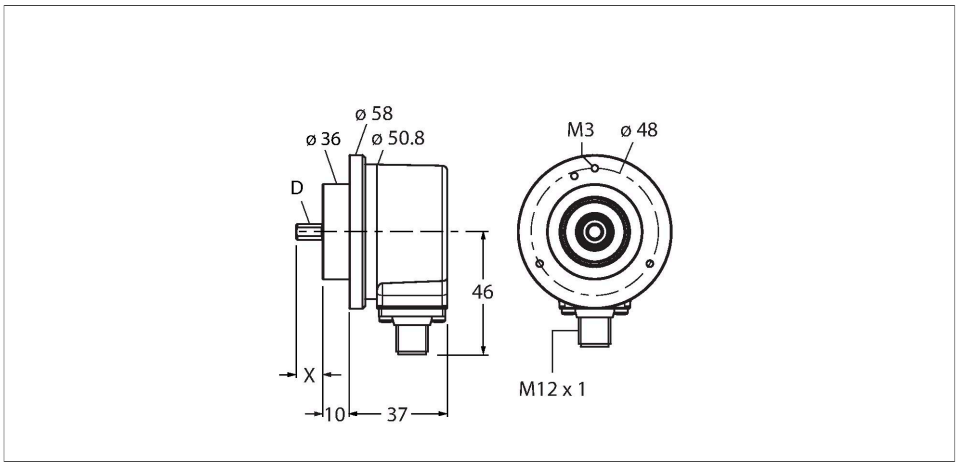
REI-E-113T10C-2B500-H1181
Incremental Encoder
Efficiency Line



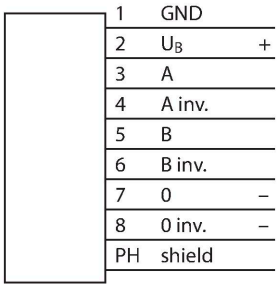
Technical data

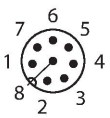
Type	REI-E-113T10C-2B500-H1181
Ident. no.	100018839
Measuring principle	Optical
Max. Rotational Speed	4500 rpm
Moment of inertia of the rotor	1.8 x10^{-6} kgm^2
Starting torque	< 0.05 Nm
Ambient temperature	-20…+70 °C
Operating voltage	10…30 VDC
No-load current	≤ 100 mA
Output current	≤ 30 mA
Short-circuit protection	yes
Wire breakage/Reverse polarity protection	yes
Output type	Incremental
Resolution, incremental	500 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	Clamping flange
Flange diameter	Ø 58 mm
Shaft Type	Solid shaft
Shaft diameter D [mm]	10

Features

- Clamping flange, Ø 58 mm
- Solid shaft, Ø 10 mm × 20 mm
- Optical measuring principle
- Shaft material: stainless steel
- Protection class IP64 on housing and shaft side
- -20…+70 °C
- Max. 4500 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
- 500 pulses per revolution

Wiring diagram





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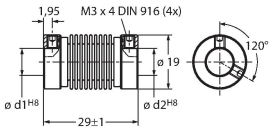
Technical data

Wavelength L [mm]	20
Shaft material	Stainless steel
Housing material	Die-cast zinc
Electrical connection	Connector, M12 × 1
	8-pin
Axial shaft load	40 N
Radial shaft load	80 N
Vibration resistance (EN 60068-2-6)	10 g (100 m/s²), 10…2000 Hz
Shock resistance (EN 60068-2-27)	1000 m/s², 6 ms
Protection class	IP64
Protection class shaft	IP64

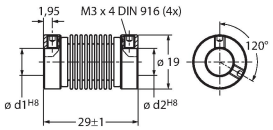
Accessories

RCS-19-10-10 1545356



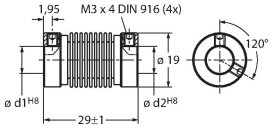
Bellows coupling, outer diameter: 19 mm, bore diameter: 10 mm/10 mm

RCS-19-10-08 1545357



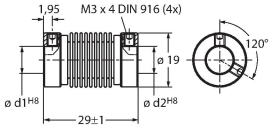
Bellows coupling, outer diameter: 19 mm, bore diameter: 10 mm/8 mm

RCS-19-10-06 1545358



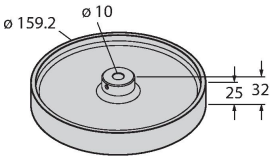
Bellows coupling, outer diameter: 19 mm, bore diameter: 10 mm/6 mm

RCS-19-12-10 1545355



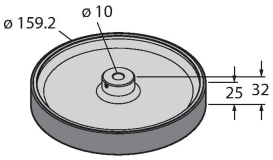
Bellows coupling, outer diameter: 19 mm, bore diameter: 12 mm/10 mm

RMW-5 1544647



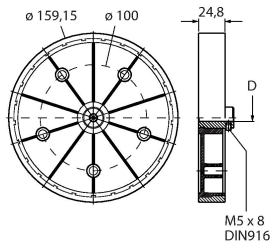
Aluminum measuring wheel (cross-knurled) for encoders, perimeter 0.5 m, width 25 mm, D = 10 mm

RMW-6 1544648



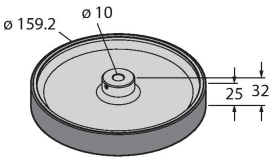
Aluminum/polyurethane measuring wheel (smooth) for encoders, perimeter 0.5 m, width 25 mm, temp. range -30…+80 °C, D = 10 mm

RMW-7 1544649



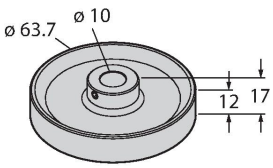
Aluminum/Vulkollan measuring wheel (smooth) for encoders, perimeter 0.5 m, width 25 mm, temp.range -30… +80 °C, D = 10 mm

RMW-8 1544650



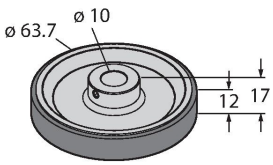
Aluminum measuring wheel with napped rubber surface (polyurethane) for encoders, perimeter 0.5 m, width 25 mm, temp. range -30…+80 °C, D = 10 mm

RMW-2 1544644



Aluminum measuring wheel (cross-knurled) for encoders, perimeter 0.2 m, width 12 mm, D = 10 mm

RMW-3 1544645



Aluminum measuring wheel (rubber smooth) for encoders, perimeter 0.2 m, width 12 mm, temp.range -30… +80 °C, D = 10 mm

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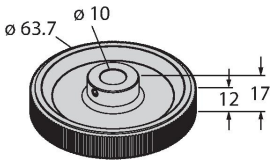
RMW-4	1544646



Aluminum measuring wheel (rubber grooved) for encoders, perimeter 0.2 m, width 12 mm, temp.range -30… +80 °C, D = 10 mm

RMW-02-5-10	1546682

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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