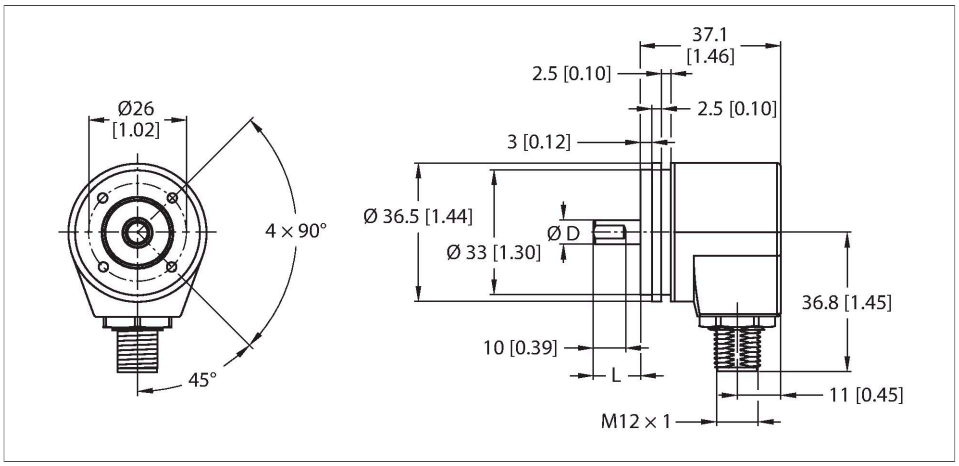
REI-04QA0S-4A500-H1181
Incremental Encoder
Industrial Line



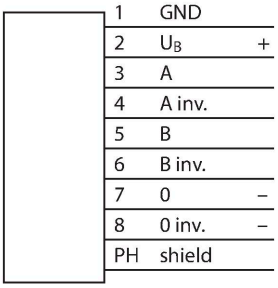
Features

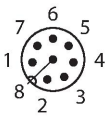
- Clamping flange, Ø 36.5mm
- Solid shaft with flat, Ø ¼" x 12.5 mm
- Optical measuring principle
- Shaft material, stainless steel
- Protection class shaft IP50
- Protection class housing IP65
- -20…+85 °C
- Max. 12000 rpm
- 5 VDC
- RS422/TTL invertible
- Pulse frequency max. 200 kHz
- M12 × 1 male connector, 8-pin
- 500 pulses per revolution

Technical data

Type	REI-04QA0S-4A500-H1181
Ident. no.	100011167
Measuring principle	Optical
Max. Rotational Speed	12000 rpm
Moment of inertia of the rotor	0.2 x10^{-6} kgm^2
Starting torque	< 0.05 Nm
Ambient temperature	-20…+85 °C
Operating voltage	5 VDC
No-load current	≤ 90 mA
Output current	≤ 20 mA
Short-circuit protection	yes
Output type	Incremental
Resolution, incremental	500 ppr
Pulse frequency max.	200 kHz
Signal level high	min. 2.5 V
Signal level low	max. 0.5 V
Output function	RS422, with inverted signals
Design	Solid shaft
Flange type	Synchro flange
Flange diameter	Ø 36.5 mm
Shaft Type	Solid shaft
Shaft diameter D [mm]	6.35
Wavelength L [mm]	12.5

Wiring diagram





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Technical data

	Shaft with flat
Shaft material	Stainless steel
Housing material	Aluminium chromated
Electrical connection	Connector, M12 × 1
	8-pin
Axial shaft load	20 N
Radial shaft load	40 N
Vibration resistance (EN 60068-2-6)	100 m/s², 55…2000 Hz
Shock resistance (EN 60068-2-27)	1000 m/s², 6 ms
Protection class	IP65
Protection class shaft	IP50

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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