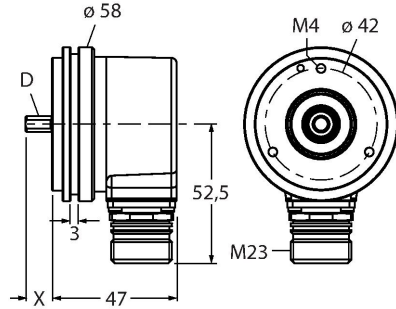


RI-10T6S-4A5000-12M23

Incremental Shaft Encoder

Industrial Line



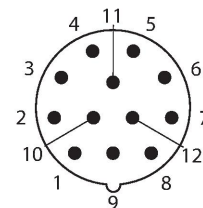
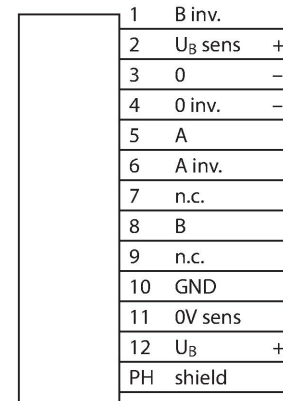
Features

- Servo flange, Ø 58 mm
- Solid shaft, Ø 6mm x 10mm
- Optical measuring principle
- Shaft material, stainless steel
- Protection class IP65 on shaft side
- -40...+85 °C
- Max. 12000 rpm (continuous operation 6000)
- 5 VDC
- Male connector, M23, 12-pole
- RS422 with inverted signals
- Pulse frequency max. 300 kHz
- 5000 pulses per revolution

Technical data

Type	RI-10T6S-4A5000-12M23
ID	100046226
Measuring principle	Optical
General data	
Max. rotational speed	12,000 rpm
Moment of inertia of the rotor	$1.8 \times 10^{-6} \text{ kgm}^2$
Starting torque	< 0.05 Nm
Output type	Incremental
Resolution incremental	5000 ppr
Electrical data	
Operating voltage U_B	5 VDC
No-load current	$\leq 90 \text{ mA}$
Output current	$\leq 20 \text{ mA}$
Short-circuit protection	yes
Wire break/reverse polarity protection	no
Pulse frequency max.	300 kHz
Signal level high	min. 2.5 V
Signal level low	max. 0.5 V
Output function	12-wire, RS422, with inverted signals
Mechanical data	
Flange type	Synchro flange
Flange diameter	Ø 58 mm
Shaft Type	Solid shaft

Wiring diagram



Technical data

Shaft diameter D (mm)	6
Shaft Length L [mm]	10
Shaft material	Stainless steel
Housing material	Die-cast zinc
Electrical connection	Connector, M23
	M23, 12-pole
Axial shaft load	40 N
Radial shaft load	80 N
Environmental conditions	
Ambient temperature	-40...+85 °C
Vibration resistance (EN 60068-2-6)	300 m/s ² , 10...2000 Hz
Shock resistance (EN 60068-2-27)	3000 m/s ² , 6 ms
Protection class	IP67
Protection class shaft	IP65