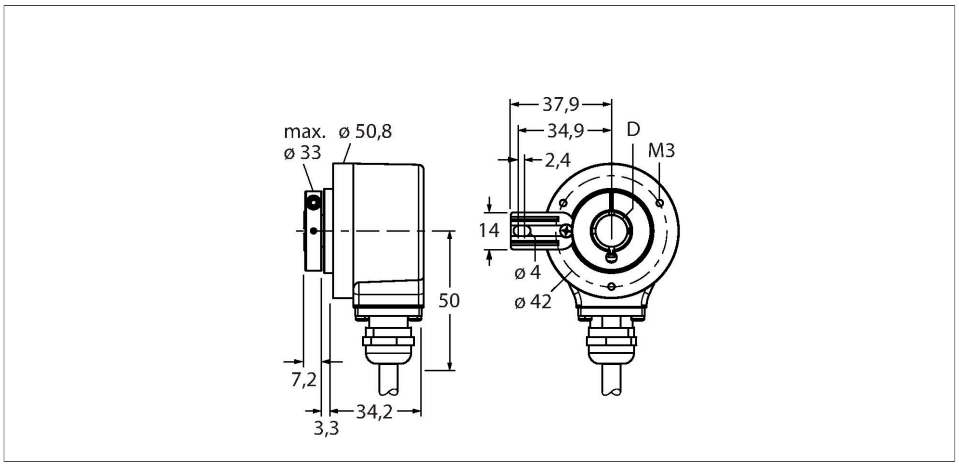
RI-12H12T-2B1024-C 1M
Incremental Encoder
Industrial Line



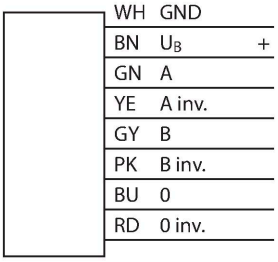
Technical data

Type	RI-12H12T-2B1024-C 1M
ID	1544903
Measuring principle	Optical
General data	
Max. rotational speed	6000 rpm
Moment of inertia of the rotor	6 × 10^{-6} kgm²
Starting torque	< 0.05 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 - 1 V
Signal level low	max. 0.5 V
Output function	Push-Pull/HTL, with inverted signals
Mechanical data	
Flange type	Flange with mounting element
Flange diameter	Ø 50.8 mm
Shaft Type	Hollow shaft

Features

- Flange with torque stop, Ø 50.8 mm
- Hollow shaft, Ø 12 mm
- Optical measuring principle
- Shaft material: stainless steel
- IP67 rated on shaft side
- -30 …+85 °C (with flexible use of cable -20 … +85 °C)
- Max. 6000 rpm (continuous operation 3000 rpm)
- 10…30 VDC
- Cable connection, 8-pole
- Push-pull, with inverted signals
- Pulse frequency max. 300 kHz
- 1024 pulses per revolution

Wiring diagram



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Technical data

Shaft diameter D (mm)	12
Shaft material	Stainless steel
Housing material	Die-cast zinc
Electrical connection	Cable
	radial
cable length	1 m
Axial shaft load	40 N
Radial shaft load	80 N
Environmental conditions	
Ambient temperature	-30…+85 °C
Vibration resistance (EN 60068-2-6)	300 m/s², 10…2000 Hz
Shock resistance (EN 60068-2-27)	3000 m/s², 6 ms
Protection class	IP67
Protection class shaft	IP67

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