

RI-12I6T-2K1000-C1M

Incremental Hollow Shaft Rotary Encoder

Industrial Line

Features

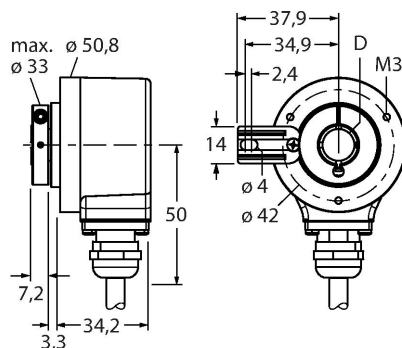
- Flange with torque stop, Ø 50.8 mm
- Hollow shaft, Ø 6 mm
- Optical measuring principle
- Shaft material: stainless steel
- Protection class IP65 on shaft side
- -40...+85 °C
- Max. 12000 rpm (continuous operation 6000)
- 5...30 VDC
- Cable connection, 8-pole
- Push-pull, with inverted signals
- Pulse frequency max. 300 kHz

Wiring diagram

	WH	GND
	BN	U _B +
	GN	A
	YE	A inv.
	GY	B
	PK	B inv.
	BU	0
	RD	0 inv.

Technical data

Type	RI-12I6T-2K1000-C1M
ID	100029835
Measuring principle	Optical
General data	
Max. rotational speed	12,000 rpm
Moment of inertia of the rotor	$6 \times 10^{-6} \text{ kgm}^2$
Starting torque	< 0.05 Nm
Output type	Incremental
Electrical data	
Operating voltage U _B	5...30 VDC
No-load current	≤ 100 mA
Output current	≤ 20 mA
Short-circuit protection	yes
Wire break/reverse polarity protection	no
Pulse frequency max.	300 kHz
Signal level high	min. U _B - 2 V
Signal level low	max. 0.5 V
Output function	Push-Pull 7272, with inverted signals
Mechanical data	
Flange type	Flange with torque stop
Flange diameter	Ø 50.8 mm
Shaft Type	Hollow shaft
Shaft diameter D (mm)	6



Technical data

Shaft material	Stainless steel
Housing material	Aluminium
Electrical connection	Cable
	Radial
Axial shaft load	40 N
Radial shaft load	80 N
Environmental conditions	
Ambient temperature	-40...+85 °C
Vibration resistance (EN 60068-2-6)	10 g (100 m/s ²), 10...2000 Hz
Shock resistance (EN 60068-2-27)	2500 m/s ² , 6 ms
Protection class	IP65
Protection class housing	IP65
Protection class shaft	IP65