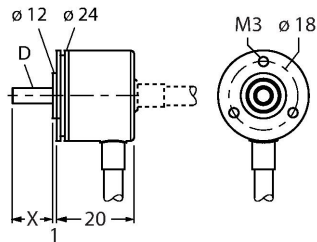


RI-01T4F1-2A50-C

Incremental Shaft Encoder

Industrial Line



Features

- Synchro flange, Ø 24 mm
- Solid shaft, Ø 4mm × 10 mm
- Optical measuring principle
- Shaft material: stainless steel
- Protection class IP50 on shaft side
- -20...+85 °C
- Max. 12000 rpm
- 8...30 VDC
- Cable connection, 8-pin
- Push-pull with inversion
- Pulse frequency max. 160 kHz
- 50 pulses per revolution

Technical data

Type	RI-01T4F1-2A50-C
ID	1546687
Measuring principle	Optical
General data	
Max. Rotational Speed	12000 rpm
Moment of inertia of the rotor	$0.1 \times 10^{-6} \text{ kgm}^2$
Starting torque	< 0.01 Nm
Output type	Incremental
Resolution, incremental	50 ppr
Electrical data	
Operating voltage	8...30 VDC
No-load current	50 mA
Output current	≤ 50 mA
Short-circuit protection	yes
Pulse frequency max.	160 kHz
Signal level high	min. $U_B - 2.5 \text{ V}$
Signal level low	max. 0.5 V
Output function	8-wire, Push-Pull/HTL, with inverted signals
Mechanical data	
Design	Solid shaft
Flange type	Synchro flange
Flange diameter	Ø 24 mm

Wiring diagram

WH	GND
BN	U_B +
GN	A
YE	A inv.
GY	B
PK	B inv.
BU	0 -
RD	0 inv. -

Technical data

Shaft Type	Solid shaft
Shaft diameter D [mm]	4
Shaft Length L [mm]	10
Shaft material	Stainless steel
Housing material	Aluminium
Electrical connection	Cable
	radial
cable length	2 m
Axial shaft load	20 N
Radial shaft load	10 N
Environmental conditions	
Ambient temperature	-20...+85 °C
Vibration resistance (EN 60068-2-6)	100 m/s ² , 55...2000 Hz
Shock resistance (EN 60068-2-27)	1000 m/s ² , 6 ms
Protection class housing	IP64
Protection class shaft	IP50