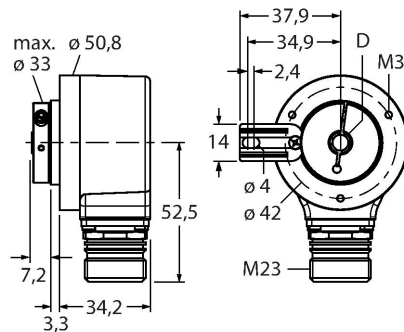


RI-12H12T-4A1024-12M23

Incremental Hollow Shaft Rotary Encoder

Industrial Line



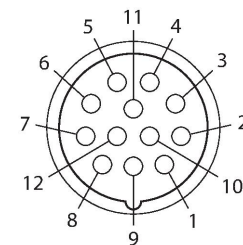
Features

- Flange with torque stop, Ø 50.8mm
- Hollow shaft, Ø 12mm
- Optical measuring principle
- Shaft material, stainless steel
- Protection class IP67 on housing and shaft side
- -40...+85 °C
- Max. 6000 rpm (continuous operation 3000 rpm)
- 5 VDC
- Male connector, M23, 12-pole
- RS422 with inverted signals
- Pulse frequency max. 300 kHz
- 1024 pulses per revolution

Technical data

Type	RI-12H12T-4A1024-12M23
ID	1546746
Measuring principle	Optical
General data	
Max. rotational speed	6000 rpm
Moment of inertia of the rotor	$6 \times 10^{-6} \text{ kgm}^2$
Starting torque	< 0.05 Nm
Output type	Incremental
Resolution, incremental	1024 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	Flange with mounting element
Flange diameter	Ø 50.8 mm
Shaft Type	Hollow shaft

1	B inv.
2	U_B sens +
3	0 -
4	0 inv. -
5	A
6	A inv.
7	n.c.
8	B
9	n.c.
10	GND
11	0V sens
12	U_B +
PH	shield



Technical data

Shaft diameter D (mm)	12
Shaft material	Stainless steel
Housing material	Die-cast zinc
Electrical connection	Connector
	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	IP67