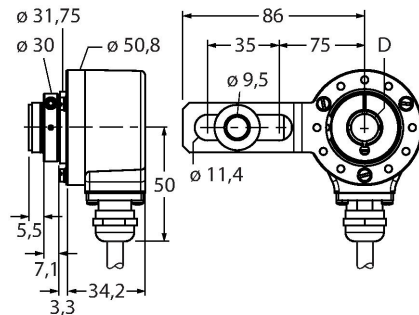


RI-12IA4S1-CA200-C2M

Incremental Hollow Shaft Rotary Encoder

Industrial Line



Features

- Flange with tether arm for 40-75mm mounting diameters
- Hollow shaft, Ø 5/8"
- Optical measuring principle
- Shaft material: stainless steel
- Protection class IP65 on shaft side
- -40...+85 °C
- Max. 12000 rpm (continuous operation 6000)
- 5 VDC
- Cable connection, 8-pole
- RS422 with inverted signals
- Pulse frequency max. 300 kHz
- 200 pulses per revolution

Technical data

Type	RI-12IA4S1-CA200-C2M
ID	100021237
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
Resolution, incremental	200 ppr
Electrical data	
Operating voltage U_B	5...30 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	RS422/TTL, with inverted signals
Mechanical data	
Flange type	Flange with mounting element
Shaft Type	Hollow shaft
Shaft diameter D (mm)	15.875

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 diameter D	0.625 in
Shaft material	Stainless steel
Housing material	Die-cast zinc
Electrical connection	Cable
	radial
cable length	2 m
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