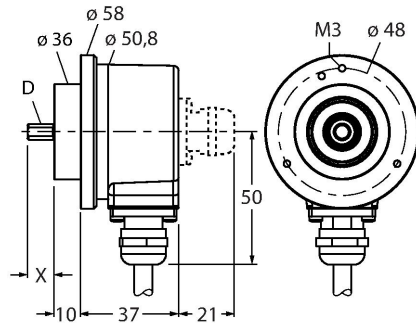


RI-10SA1C-4B256-C

Incremental Shaft Encoder

Industrial Line



Features

- Protection class IP65 on shaft side
- -40...+85 °C
- Max. 12000 rpm (continuous operation 6000)
- 5...30 VDC
- Cable connection, 8-pole
- RS422 with inverted signals
- Pulse frequency max. 300 kHz
- 256 pulses per revolution

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-10SA1C-4B256-C
ID	100033686
Measuring principle	Optical
General data	
Max. rotational speed	12,000 rpm
Moment of inertia of the rotor	$1.8 \times 10^{-6} \text{ kgm}^2$
Starting torque	< 0.05 Nm
Output type	Incremental
Resolution incremental	256 ppr
Electrical data	
Operating voltage U _B	5...30 VDC
No-load current	≤ 90 mA
Output current	≤ 20 mA
Short-circuit protection	yes
Wire break/reverse polarity protection	yes
Pulse frequency max.	300 kHz
Signal level high	min. 2.5 V
Signal level low	max. 0.5 V
Output function	RS422, with inverted signals
Mechanical data	
Flange type	Synchro flange
Flange diameter	Ø 58 mm
Shaft Type	Solid shaft

Technical data

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