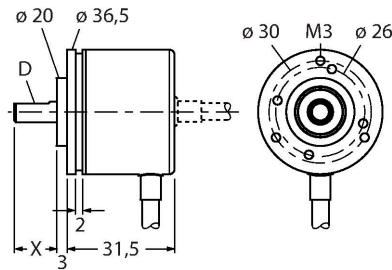


RI-04QA0C-2H500-CA

Incremental Shaft Encoder

Industrial Line



Features

- Clamping flange, Ø 36.5mm
- Solid shaft with flat, Ø 1/4" x 12.5 mm
- Optical measuring principle
- Shaft material, stainless steel
- Protection class IP50 on shaft side
- -20...+85 °C
- Max. 12000 rpm
- 8...30 VDC
- Push-pull 7272, with inversion
- Pulse frequency max. 200 kHz
- Cable connection
- 500 pulses per revolution

Technical data

Type	RI-04QA0C-2H500-CA
ID	100046041
Measuring principle	Optical
General data	
Max. rotational speed	12,000 rpm
Moment of inertia of the rotor	$0.2 \times 10^{-6} \text{ kgm}^2$
Starting torque	< 0.05 Nm
Output type	Incremental
Resolution, incremental	500 ppr
Electrical data	
Operating voltage U_B	8...30 VDC
No-load current	$\leq 40 \text{ mA}$
Output current	$\leq 50 \text{ mA}$
Short-circuit protection	yes
Pulse frequency max.	200 kHz
Signal level high	min. $U_B - 3 \text{ V}$
Signal level low	max. 0.5 V
Output function	Push-Pull/HTL, with inverted signals
Mechanical data	
Flange type	Clamping flange
Flange diameter	Ø 36.5 mm
Shaft Type	Solid shaft
Shaft diameter D	0.25 in

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 Length L [mm]	12.5
	Shaft with flat
Shaft material	Stainless steel
Housing material	Aluminum chromated
Electrical connection	Cable
	radial
cable length	2 m
Axial shaft load	20 N
Radial shaft load	40 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	IP65
Protection class shaft	IP50