

RI-12I10E-2B600-C10M

Incremental Hollow Shaft Rotary Encoder

Industrial Line

Technical data

Type	RI-12I10E-2B600-C10M
ID	200005715
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	$< 0.05 \text{ Nm}$
Output type	Incremental
Resolution incremental	600 ppr
Electrical data	
Operating voltage U_B	10...30 VDC
No-load current	$\leq 100 \text{ mA}$
Output current	$\leq 30 \text{ mA}$
Short-circuit protection	yes
Wire break/reverse polarity protection	yes
Pulse frequency max.	300 kHz
Signal level high	min. $U_B - 1 \text{ V}$
Signal level low	max. 0.5 V
Output function	Push-Pull/HTL, with inverted signals
Mechanical data	
Flange type	Flange with stator coupling
Flange diameter	$\varnothing 63 \text{ mm}$
Shaft Type	Hollow shaft
Shaft diameter D (mm)	10
Shaft material	Stainless steel
Housing material	Die-cast zinc
Electrical connection	Cable
	Radial
cable length	10 m
Axial shaft load	40 N
Radial shaft load	80 N
Environmental conditions	
Ambient temperature	$-40...+85 \text{ }^\circ\text{C}$



Features

- Flange with tether arm for 40-75mm mounting diameters
- Hollow shaft, $\varnothing 10 \text{ mm}$
- Optical measuring principle
- Shaft material: stainless steel
- Protection class IP65 on shaft side
- $-40...+85 \text{ }^\circ\text{C}$
- Max. 12000 rpm (continuous operation 6000)
- 10...30 VDC
- Cable connection, 8-pole
- Push-pull, with inverted signals
- Pulse frequency max. 300 kHz
- 600 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

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 housing	IP65
Protection class shaft	IP65