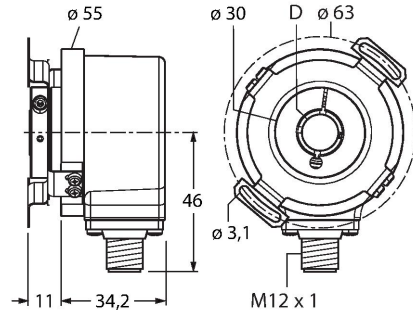


RI-12I15E-4A1024-H1181

Incremental Hollow Shaft Rotary Encoder

Industrial Line



Technical data

Type	RI-12I15E-4A1024-H1181
ID	100045718
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	1024 ppr
Electrical data	
Operating voltage U_s	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	RS422, with inverted signals
Mechanical data	
Flange type	Flange with stator coupling
Flange diameter	$\varnothing 63 \text{ mm}$
Shaft Type	Hollow shaft

Features

- Protection class IP65 on shaft side
- $-40 \dots +85 \text{ }^\circ\text{C}$
- Max. 12000 rpm (continuous operation 6000)
- 5 VDC
- Male connector, M12 x 1, 8-pole
- RS422 with inverted signals
- Pulse frequency max. 300 kHz
- 1024 pulses per revolution

Technical data

Shaft diameter D (mm)	15
Shaft material	Stainless steel
Housing material	Aluminium
Electrical connection	Connector
	8-pin
Axial shaft load	40 N
Radial shaft load	80 N
Environmental conditions	
Ambient temperature	-40...+85 °C
Vibration resistance (EN 60068-2-6)	10 g (100 m/s ²), 10...2000 Hz
Shock resistance (EN 60068-2-27)	2500 m/s ² , 6 ms
Protection class	IP65
Protection class housing	IP65
Protection class shaft	IP65