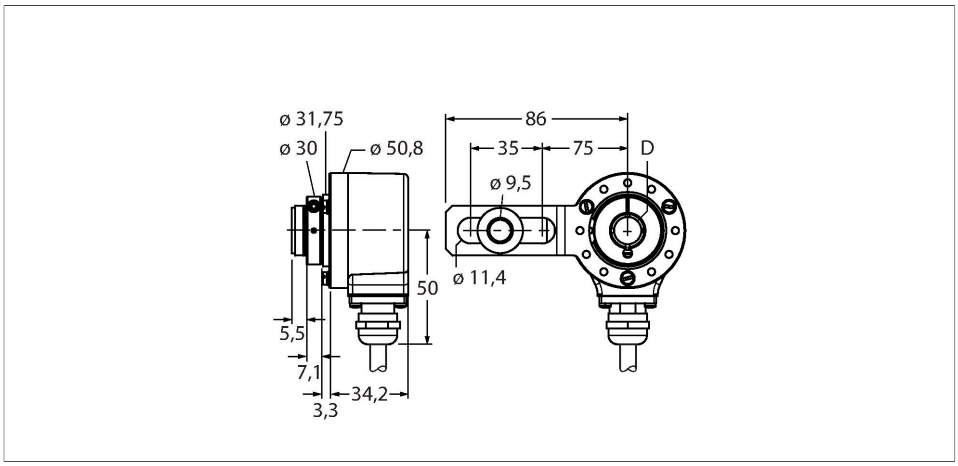
RI-12H12S1-2K1000-C1M
Incremental Hollow Shaft Rotary Encoder
Industrial Line



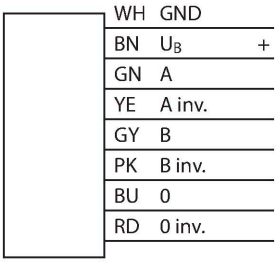
Features

- Flange with tether arm for 40-75mm mounting diameters
- Hollow shaft, Ø 12 mm
- Optical measuring principle
- Shaft material: stainless steel
- Protection class IP67 on housing and shaft side
- -40…+85 °C
- Max. 6000 rpm (continuous operation 3000 rpm)
- 5…30 VDC
- Cable connection, 8-pole
- Push-pull, with inverted signals
- Pulse frequency max. 300 kHz
- 1000 pulses per revolution

Technical data

Type	RI-12H12S1-2K1000-C1M
ID	100029775
Measuring principle	Optical
General data	
Max. rotational speed	6000 rpm
Moment of inertia of the rotor	6 × 10^{-6} kgm²
Starting torque	< 0.05 Nm
Output type	Incremental
Resolution, incremental	1000 ppr
Electrical data	
Operating voltage U_B	5…30 VDC
No-load current	≤ 100 mA
Output current	≤ 20 mA
Short-circuit protection	yes
Wire break/reverse polarity protection	no
Pulse frequency max.	300 kHz
Signal level high	min. U_B - 2 V
Signal level low	max. 0.5 V
Output function	Push-Pull 7272, with inverted signals
Mechanical data	
Flange type	Flange with mounting element
Shaft Type	Hollow shaft
Shaft diameter D (mm)	12

Wiring diagram



Technical data

Shaft diameter D	0.472 in
Shaft material	Stainless steel
Housing material	Die-cast zinc
Electrical connection	Cable
	radial
cable length	1 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/s², 10…2000 Hz
Shock resistance (EN 60068-2-27)	3000 m/s², 6 ms
Protection class	IP67
Protection class shaft	IP67