

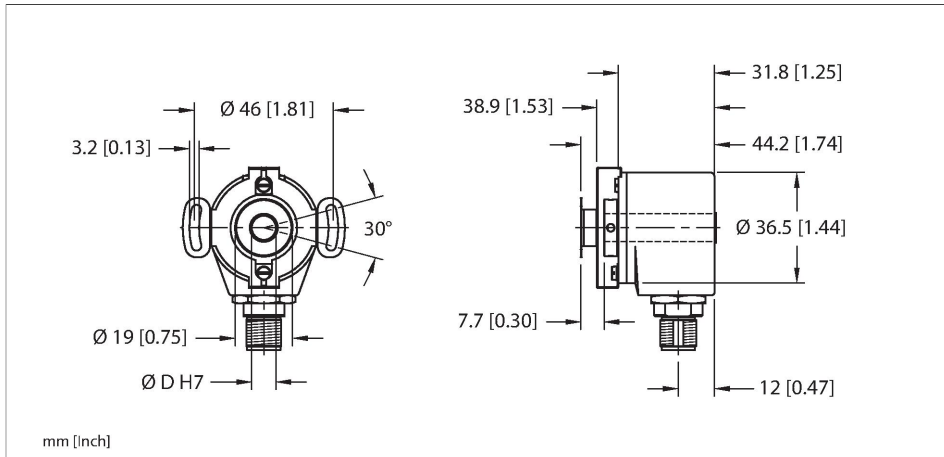
RI-05I6E-2I2500-H1181

Incremental Hollow Shaft Encoder

Industrial Line

Features

- Incremental Hollow Shaft Encoder
- Protection class IP50 on shaft side
- -20...+85 °C
- Max. 6000 rpm
- 5...18 VDC
- Male connector, M12 × 1 , 8-pin
- Push-pull 7272, with inversion
- Pulse frequency max. 200 kHz
- 2500 pulses per revolution



Technical data

Type	RI-05I6E-2I2500-H1181
ID	200003584
Measuring principle	Optical
General data	
Max. Rotational Speed	6000 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	2500 ppr
Electrical data	
Operating voltage	5...18 VDC
No-load current	40 mA
Output current	≤ 50 mA
Short-circuit protection	yes
Pulse frequency max.	200 kHz
Signal level high	min. $U_s - 2.5 \text{ V}$
Signal level low	max. 0.5 V
Output function	Push-Pull 7272, with inverted signals
Mechanical data	
Design	Hollow shaft
Flange type	Receptacle with slotted flex mount
Flange diameter	Ø 19 mm
Shaft Type	Hollow shaft

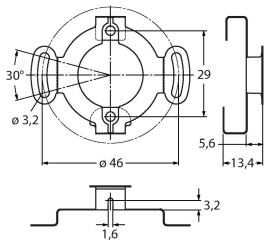
Technical data

Shaft diameter D [mm]	6
	Hollow shaft
Shaft material	Brass
Housing material	Aluminum chromated
Electrical connection	Connector, M12 × 1
	8-pin
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

Accessories

RME-3

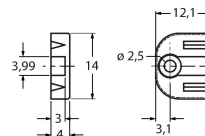
1544614



Stainless steel stator coupling for hollow shaft encoders, reference diameter 46 mm, for highly dynamic applications with axial and radial play

RME-13

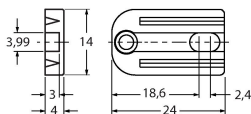
1544624



Plastic mounting element for hollow shaft encoders, pitch diameter 42 mm, for applications with limited axial play, low dynamics and limited mounting space

RME-14

1544625



Plastic mounting element for hollow shaft encoders, pitch diameters 44 mm, 60 mm, 63 mm, 65 mm, for low dynamic applications with high axial play.