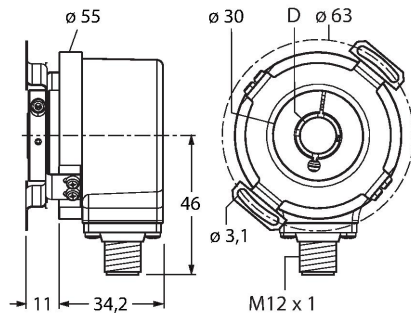


Ri-12I14E-4B3600-H1181
Incremental Encoder
Industrial Line



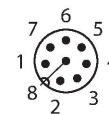
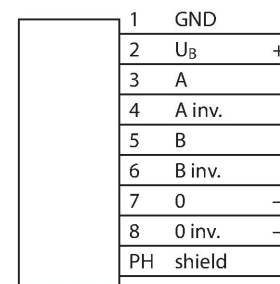
Features

- Flange with slotted flex mount, Ø 63 mm
- Hollow shaft, Ø 14 mm
- Optical measuring principle
- Shaft material: stainless steel
- Protection class IP65 on shaft side
- -40...+85 °C
- Max. 12000 rpm (continuous operation 6000)
- 5...30 VDC
- Male connector, M12 x 1 , 8-pole
- RS422 with inverted signals
- Pulse frequency max. 300 kHz
- 3600 pulses per revolution

Technical data

Type	Ri-12I14E-4B3600-H1181
ID no.	1545303
Measuring principle	Optical
Max. Rotational Speed	12000 rpm
Moment of inertia of the rotor	6 x10 ⁻⁶ kgm ²
Starting torque	< 0.05 Nm
Ambient temperature	-40...+85 °C
Operating voltage	5...30 VDC
No-load current	≤ 90 mA
Output current	≤ 20 mA
Short-circuit protection	yes
Wire breakage/Reverse polarity protection	yes
Output type	Incremental
Resolution, incremental	3600 ppr
Pulse frequency max.	300 kHz
Signal level high	min. 2.5 V
Signal level low	max. 0.5 V
Output function	RS422/TTL, with inverted signals
Design	Hollow shaft
Flange type	Flange with stator coupling
Flange diameter	Ø 63 mm
Shaft Type	Hollow shaft
Shaft diameter D [mm]	14

Wiring diagram



Technical data

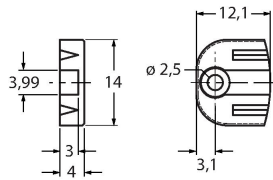
Shaft material	Stainless steel
Housing material	Die-cast zinc
Electrical connection	Connector, M12 × 1
	8-pin
Axial shaft load	40 N
Radial shaft load	80 N
Vibration resistance (EN 60068-2-6)	300 m/s ² , 10...2000 Hz
Shock resistance (EN 60068-2-27)	3000 m/s ² 6 ms
Protection class	IP67
Protection class shaft	IP65

Accessories

RME-1 	1544612 Stainless steel stator coupling for hollow shaft encoders, reference diameter, 65 mm, for highly dynamic, standard applications with axial and radial play	RME-2 	1544613 Stainless steel stator coupling for hollow shaft encoders, reference diameter 63 mm, for applications with high demands on accuracy
RME-4 	1544615 Stainless steel mounting panel for hollow shaft encoders, reference diameter 80...170 mm, for low dynamic applications with axial and radial play	RME-7 	1544618 Stainless steel stator coupling for hollow shaft encoders, reference diameter 65 mm, for highly dynamic applications with axial and radial play
RME-8 	1544619 Stainless steel mounting panel for hollow shaft encoders, reference diameter 65...91.5 mm, for applications with axial and radial play at constant rotation speed	RME-9 	1544620 Stainless steel mounting panel for hollow shaft encoders, reference diameter 64.5 mm, for low dynamic applications with axial and radial play

RME-13

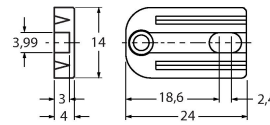
1544624



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.