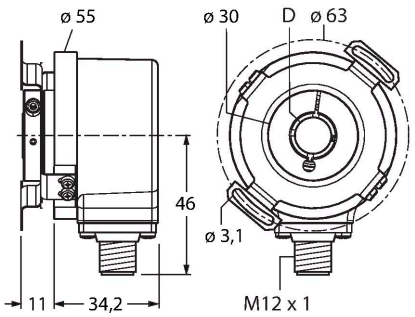
REI-E-114I12E-4B1024-H1181
Incremental Encoder
Efficiency Line



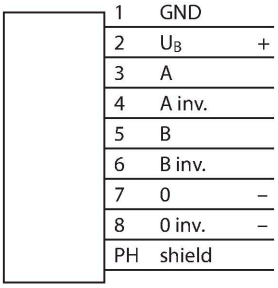
Features

- Receptacle with stator coupling, Ø 65 mm
- Hollow shaft, Ø 12 mm
- Optical measuring principle
- Shaft material: stainless steel
- Protection class IP64 on the shaft side
- -20…+70 °C
- Max. 4500 rev/min
- 5…30 VDC
- Male connector, M12 x 1 , 8-pole
- RS422 with inverted signals
- Pulse frequency max. 300 kHz
- 1024 pulses

Technical data

Type	REI-E-114I12E-4B1024-H1181
Ident. no.	100011909
Measuring principle	Optical
Max. Rotational Speed	4500 rpm
Moment of inertia of the rotor	6 x10^{-6} kgm^2
Starting torque	< 0.05 Nm
Ambient temperature	-20…+70 °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 function	RS422, with inverted signals
Output type	incremental
Resolution, incremental	1024 ppr
Pulse frequency max.	300 kHz
Signal level high	min. 2.5 V
Signal level low	max. 0.5 V
Design	Hollow shaft
Flange type	Flange with stator coupling
Flange diameter	Ø 63 mm
Shaft Type	Hollow shaft
Shaft diameter D (mm)	12

Wiring diagram



REI-E-114I12E-4B1024-H1181| 11/07/2019 21-29 | technical changes reserved

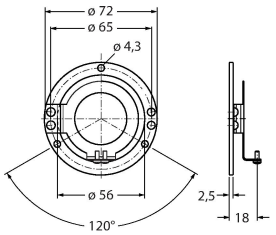
Technical data

Shaft material	Stainless steel
Housing material	Die-cast zinc
Electrical connection	Connector, M12 × 1
	M12, 8-pin
Axial shaft load	40 N
Radial shaft load	80 N
Vibration resistance (EN 60068-2-6)	10 g (100 m/s²), 10…2000 Hz
Shock resistance (EN 60068-2-27)	1000 m/s², 6 ms
Protection class housing	IP65
Protection class shaft	IP64

Signal	Gnd	$+U_B$	A	A inv.	B	B inv.	0	0 inv.	Shield
Pin configuration	1	2	3	4	5	6	7	8	PH

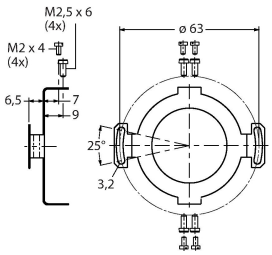
Accessories

RME-1 **1544612**



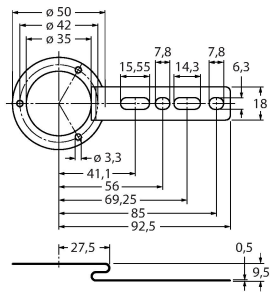
Stainless steel stator coupling for hollow shaft encoders, reference diameter, 65 mm, for highly dynamic, standard applications with axial and radial play

RME-2 **1544613**



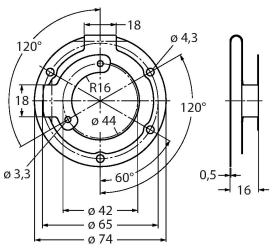
Stainless steel stator coupling for hollow shaft encoders, reference diameter 63 mm, for applications with hight demands on accuracy

RME-4 **1544615**



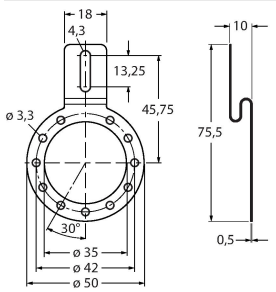
Stainless steel mounting panel for hollow shaft encoders, reference diameter 80…170 mm, for low dynamic applications with axial and radial play

RME-7 **1544618**



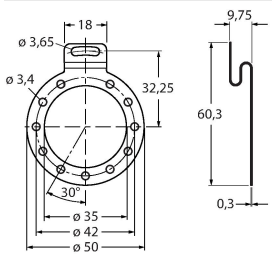
Stainless steel stator coupling for hollow shaft encoders, reference diameter 65 mm, for highly dynamic applications with axial and radial play

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

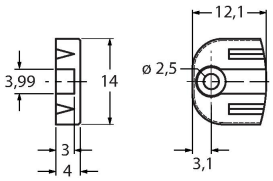
RME-9 **1544620**



Stainless steel mounting panel for hollow shaft encoders, reference diameter 64.5 mm, for low dynamic applications with axial and radial play

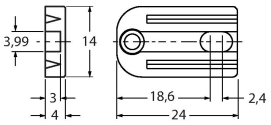
REI-E-114112E-4B1024-H1181| 11/07/2019 21-29 | technical changes reserved

RME-13	1544624



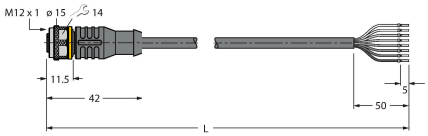
Plastic spring element for hollow shaft encoders, reference diameter 42 mm, for low dynamic applications with restricted axial play and limited mounting space.

RME-14	1544625



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

Wiring accessories

Dimension drawing	Type	Ident. no.	
	**RKC8T-2/TXL**	**6625142**	Connection cable, female M12, straight, 8-pin, cable length: 2 m, sheath material: PUR, black; cULus approval; other cable lengths and qualities available, see www.turck.com

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