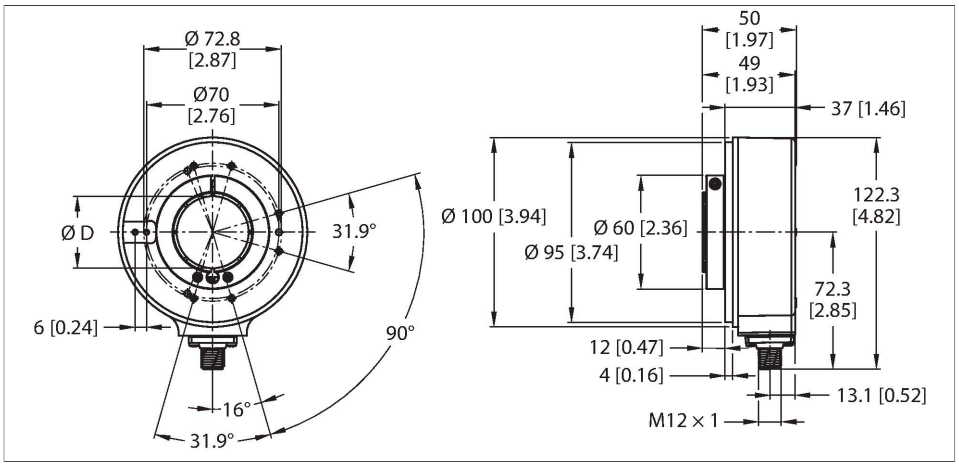
REI-43H42S-4C1024-H1181
Incremental Encoder
Industrial Line



Technical data

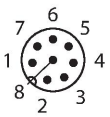
Type	REI-43H42S-4C1024-H1181
Ident. no.	100011496
Measuring principle	Optical
Max. Rotational Speed	6000 rpm
Moment of inertia of the rotor	220 x10^{-6} kgm^2
Starting torque	< 0.2 Nm
Ambient temperature	-40…+80 °C
Operating voltage	10…30 VDC
No-load current	≤ 120 mA
Output current	≤ 20 mA
Short-circuit protection	yes
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
Output function	RS422/TTL, with inverted signals
Design	Hollow shaft
Flange type	Flange without mounting element
Flange diameter	Ø 100 mm
Shaft Type	Hollow shaft
Shaft diameter D [mm]	42
Shaft material	Stainless steel

Features

- Flange without mounting element, Ø 100 mm
- Hollow shaft, Ø 42 mm
- Optical measuring principle
- Shaft material: stainless steel
- Protection class IP65 on the shaft side
- -40…+80°C
- max. 6000 rev / min
- 10…30 VDC
- Male connector, M12 x 1 , 8-pole
- RS422 with inverted signals
- Pulse frequency max. 300 kHz
- 1024 pulses per revolution

Wiring diagram

1	GND	
2	U_B	+
3	A	
4	A inv.	
5	B	
6	B inv.	
7	0	–
8	0 inv.	–
PH	shield	



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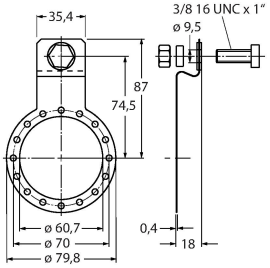
Technical data

Housing material	Die-cast zinc
Electrical connection	Connector, M12 × 1
	8-pin
Vibration resistance (EN 60068-2-6)	10 g (100 m/s²), 10…2000 Hz
Shock resistance (EN 60068-2-27)	200 g (1000 m/s²), 6 ms
Protection class	IP65
Protection class shaft	IP65

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

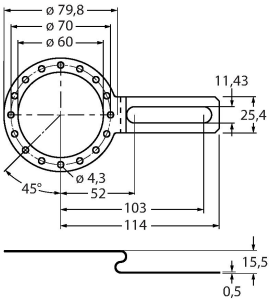
Accessories

RME-5 1544616



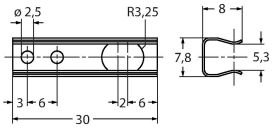
Stainless steel mounting panel for hollow shaft encoders, reference diameter 149 mm, for applications with axial play

RME-6 1544617



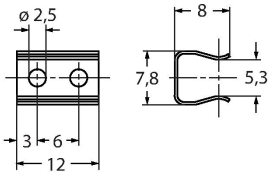
Stainless steel mounting panel for hollow shaft encoders, reference diameter 104…206 mm, for applications with fixing points on adjustable reference diameter

RME-10 1544621



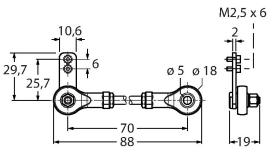
Stainless steel mounting element for hollow shaft encoders, pitch diameter 110 mm, for applications with high axial play

RME-11 1544622



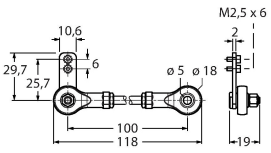
Stainless steel mounting element for hollow shaft encoders, pitch diameter 76 mm, for applications with limited mounting space

RME-15 1544626



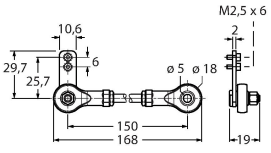
Metal arm bracket, for hollow shaft encoders, length 70 mm; for applications with little axial and radial play; flexibly adjustable

RME-16 1544627



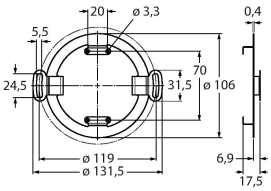
Metal arm bracket, for hollow shaft encoders, length 100 mm; for applications with little axial and radial play; flexibly adjustable

RME-17 1544628



Metal arm bracket, for hollow shaft encoders, length 150 mm; for applications with little axial and radial play; flexibly adjustable

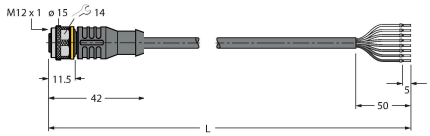
RME-18 1544629



Stainless steel stator coupling for hollow shaft encoders, reference diameter 119 mm, for highly dynamic applications with axial and radial play

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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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