

REI-43H38S-4C2048-H1181
Incremental Encoder
Industrial Line



Technical data

Type	REI-43H38S-4C2048-H1181
ID	100011451
Measuring principle	Optical
General data	
Max. rotational speed	6000 rpm
Moment of inertia of the rotor	220 × 10 ⁻⁶ kgm ²
Starting torque	< 0.2 Nm
Output type	Incremental
Resolution incremental	2048 ppr
Electrical data	
Operating voltage U _B	10...30 VDC
No-load current	≤ 120 mA
Output current	≤ 20 mA
Short-circuit protection	yes
Wire break/reverse polarity protection	yes
Pulse frequency max.	300 kHz
Signal level high	min. 2.5 V
Signal level low	max. 0.5 V
Output function	8-wire, RS422/TTL, invertable
Mechanical data	
Flange type	Flange without mounting element
Flange diameter	Ø 100 mm
Shaft Type	Hollow shaft
Shaft diameter D (mm)	38
Shaft diameter D	1.496 in
Shaft material	Stainless steel

Features

- Flange without mounting element, Ø 100 mm
- Hollow shaft, Ø 38 mm
- Optical measuring principle
- Shaft material: stainless steel
- Protection class IP65 on housing and shaft side
- -40 ... +80 °C
- Max. 6000 rpm (at 60 °C: 2500 rpm)
- 10...30 VDC
- RS422/TTL invertible
- Pulse frequency max. 300 kHz
- M12 × 1 male connector, 8-pin
- 2048 pulses per revolution



Technical data

Housing material	Die-cast zinc
Electrical connection	Connector, M12 × 1
	8-pin
Axial shaft load	100 N
Radial shaft load	200 N
Environmental conditions	
Ambient temperature	-40...+80 °C
Vibration resistance (EN 60068-2-6)	10 g (100 m/s²), 10...2000 Hz
Shock resistance (EN 60068-2-27)	200 g (2000 m/s²), 6 ms
Protection class	IP65
Protection class shaft	IP65

Accessories

RSA-7 1544808

Inlay, outer diameter 38 mm, inner diameter 12 mm

RSA-11 1545469

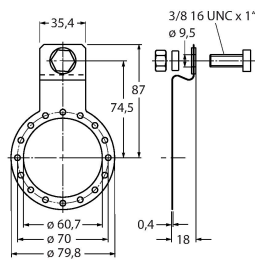
Inlay, outer diameter 38 mm, inner diameter 16 mm

RSA-10 1545465

Inlay, outer diameter 38 mm, inner diameter 25 mm

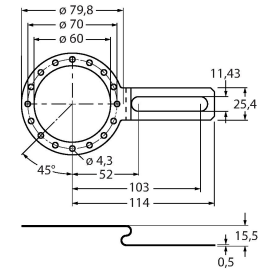
RME-5 1544616

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



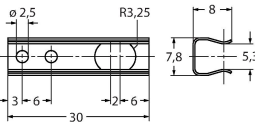
RME-6 1544617

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



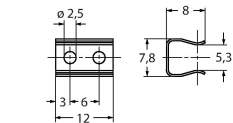
RME-10 1544621

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



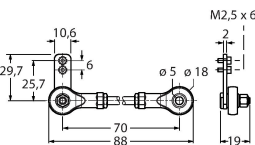
RME-11 1544622

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



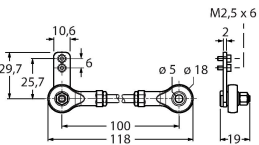
RME-15 1544626

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



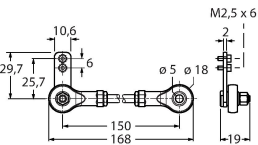
RME-161544627

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



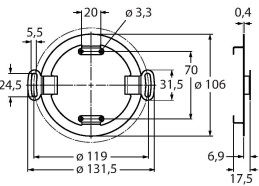
RME-171544628

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



RME-181544629

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



Accessories

Dimension drawing	Type	ID	
	RKC8T-2/TXL	6625142	Connection cable, M12 female connector, straight, 8-pin, cable length: 2 m, jacket material: PUR, black; cULus approval
	WKC8T-2/TXL	6625145	Connection cable, M12 female connector, angled, 8-pin, cable length: 2 m, jacket material: PUR, black; cULus approval