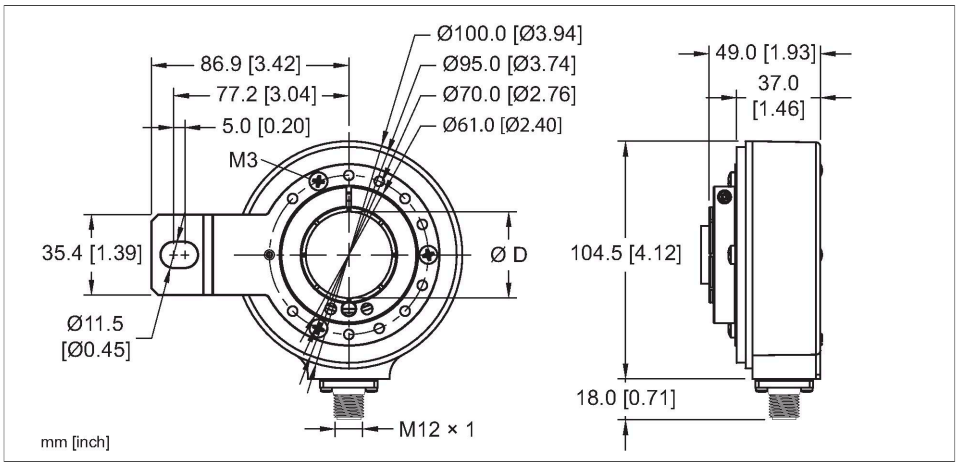
RI-43HA6E2-2F1024-H1181/N42
Incremental Hollow Shaft Rotary Encoder
Industrial Line

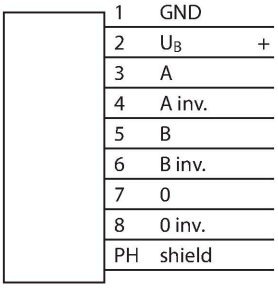


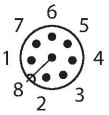
Technical data

Type	RI-43HA6E2-2F1024-H1181/N42
ID	1546487
Measuring principle	Optical
General data	
Max. rotational speed	6000 rpm
Moment of inertia of the rotor	220 × 10^{-6} kgm²
Starting torque	< 0.2 Nm
Output type	Incremental
Resolution incremental	1024 ppr
Electrical data	
Operating voltage U_B	5…30 VDC
No-load current	≤ 100 mA
Output current	≤ 20 mA
Short-circuit protection	yes
Wire break/reverse polarity protection	no
Pulse frequency max.	300 kHz
Signal level high	min. U_B - 2 V
Signal level low	max. 0.5 V
Output function	8-wire, Push-Pull 7272, with inverted signals
Mechanical data	
Flange type	Flange with mounting element
Flange diameter	Ø 100 mm

Features

- Flange with 4 – ½" C-Face Tether, Ø 100 mm
- Hollow shaft, Ø 1"
- Optical measuring principle
- Shaft material, stainless steel
- Protection class IP65 on the shaft side
- -40…+80°C
- max. 6000 rev / min
- 5…30 VDC
- Male connector, M12 x 1 , 8-pole
- Push-pull 7272, with inverted signals
- Pulse frequency max. 300 kHz
- 1024 pulses per revolution





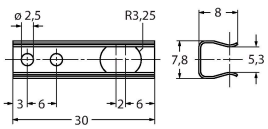
Technical data

Shaft Type	Hollow shaft
Shaft diameter D (mm)	25.4
Shaft diameter D	1 in
Shaft material	Stainless steel
Housing material	Die-cast zinc
Electrical connection	Connector, M12 × 1
	M12, 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 (1000 m/s²), 6 ms
Protection class	IP65
Protection class shaft	IP65
Included in delivery	4 - 1/2" C-Face tether

Accessories

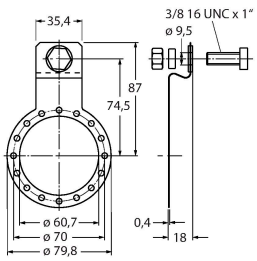
RA-43-S4 1545911

Stainless steel long antii-rotation spring 110 mm reference diamter



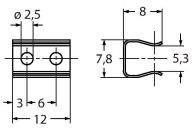
RA-43-E2 1545912

Stainless seel 4 1/2" C-face tether 149 mm reference diamter



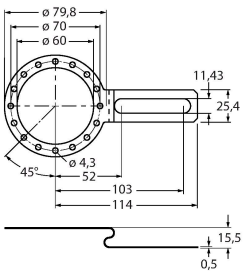
RA-43-S5 1545910

Stainless steel short anit-rotation spring 76 mm reference diamter



RA-43-S8 1545909

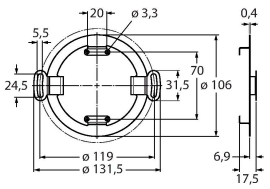
Stainless steel long tether arm 104 - 206 mm reference diamter



RI-43HA6E2-2F1024-H1181/N42| 02/21/2025 14-58 | technical changes reserved

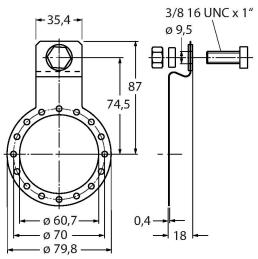
RA-43-E 1545946

Stainless steel slotted fexmount 119mm reference diamter



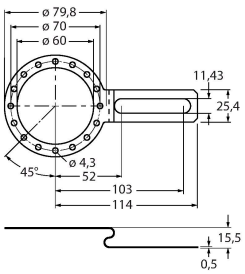
RME-5 1544616

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



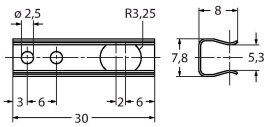
RME-6 1544617

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



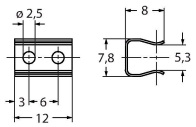
RME-10 1544621

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



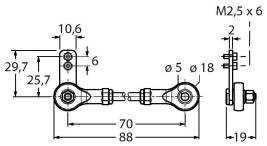
RME-11 1544622

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



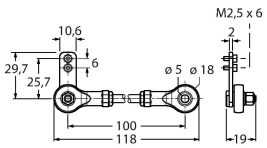
RME-15 1544626

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



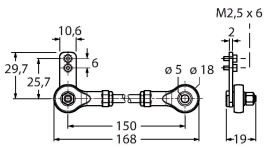
RME-16 1544627

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