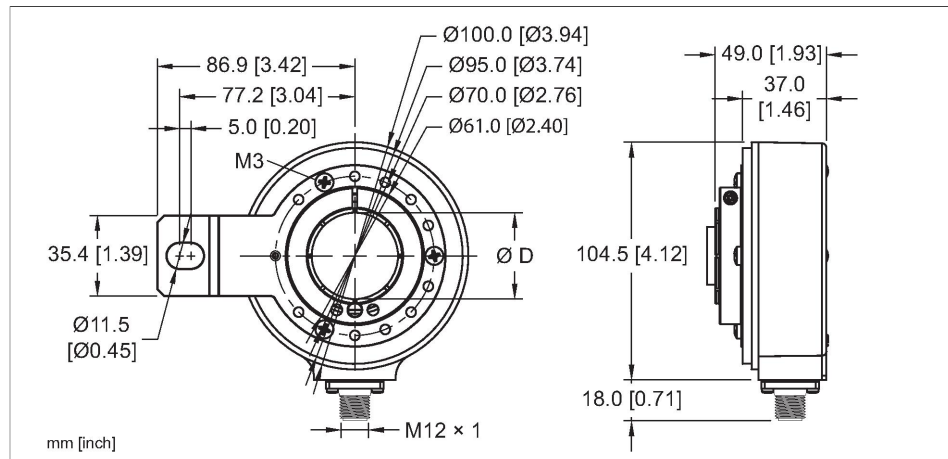


RI-43HA6E2-2F5000-H1181

Incremental Hollow Shaft Rotary Encoder

Industrial Line



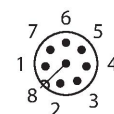
Technical data

Type	RI-43HA6E2-2F5000-H1181
ID	100022089
Measuring principle	Optical
General data	
Max. rotational speed	6000 rpm
Moment of inertia of the rotor	$220 \times 10^{-6} \text{ kgm}^2$
Starting torque	< 0.2 Nm
Output type	Incremental
Resolution incremental	5000 ppr
Electrical data	
Operating voltage U_B	5...30 VDC
No-load current	$\leq 100 \text{ mA}$
Output current	$\leq 20 \text{ mA}$
Short-circuit protection	yes
Wire break/reverse polarity protection	no
Pulse frequency max.	300 kHz
Signal level high	min. $U_B - 2 \text{ V}$
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
- 5000 pulses per revolution

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



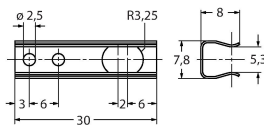
Technical data

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/s ²), 10...2000 Hz
Shock resistance (EN 60068-2-27)	200 g (1000 m/s ²), 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 anti-rotation
spring 110 mm reference diameter


RA-43-E2
1545912

Stainless steel 4 1/2" C-face tether
149 mm reference diameter


RA-43-S5
1545910

Stainless steel short anti-rotation
spring 76 mm reference diameter

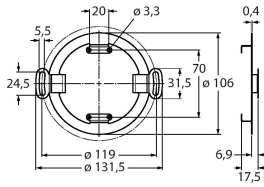

RA-43-S8
1545909

Stainless steel long tether arm 104 -
206 mm reference diameter



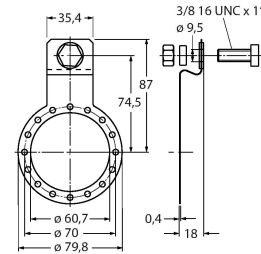
1545946

Stainless steel slotted fexmount
119mm reference diamter



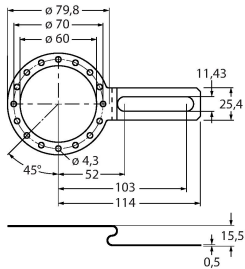
1544616

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



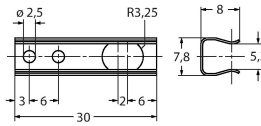
1544617

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



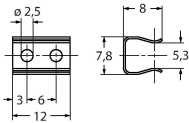
1544621

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



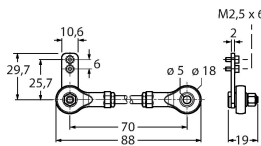
1544622

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



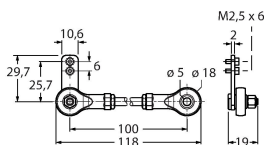
1544626

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



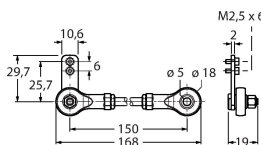
1544627

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



1544628

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



1544629

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

