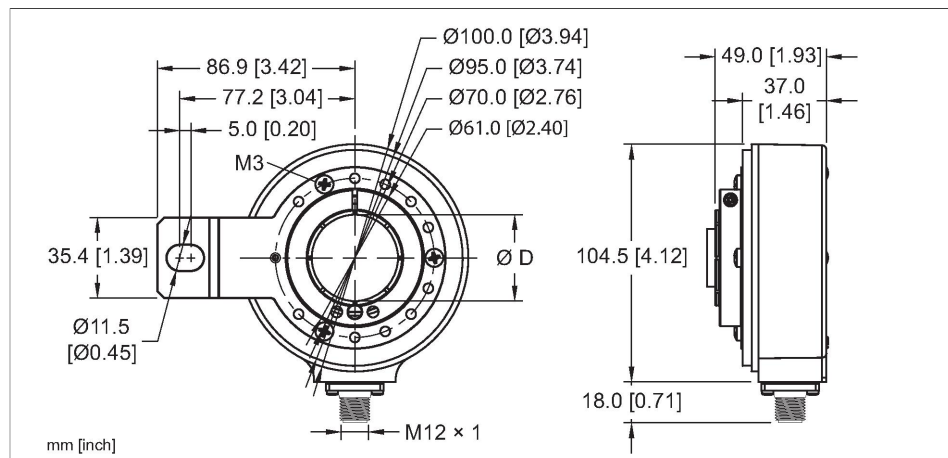


RI-43HA4E2-AA2048-H1181/N42

Incremental Hollow Shaft Rotary Encoder

Industrial Line



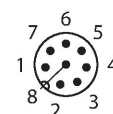
Technical data

Type	RI-43HA4E2-AA2048-H1181/N42
ID	200017981
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	2048 ppr
Electrical data	
Operating voltage U_B	10...30 VDC
No-load current	$\leq 100 \text{ mA}$
Output current	$\leq 30 \text{ mA}$
Short-circuit protection	yes
Wire break/reverse polarity protection	yes
Pulse frequency max.	300 kHz
Signal level high	min. $U_B - 3 \text{ V}$
Signal level low	max. 2.5 V
Output function	8-wire, Sine/Cosine, with inverted signals
Mechanical data	
Flange type	Flange with mounting element
Flange diameter	Ø 100 mm
Shaft Type	Hollow shaft

Features

- Flange with 4 – ½" C-Face Tether, Ø 100 mm
- Hollow shaft, Ø 5/8"
- (N42) Isolation insert 1545818 RSA-A4
- 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
- SIN/COS 1 Vss with inverted signals
- Pulse frequency max. 300 kHz
- 2048 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 diameter D (mm)	15.875
Shaft diameter D	0.625 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

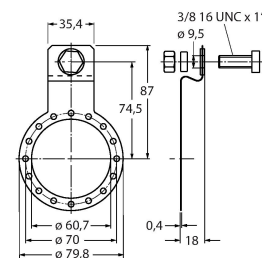
Accessories

RA-43-S4
1545911

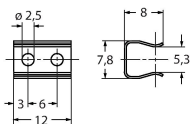
Stainless steel long anti-rotation
spring 110 mm reference diameter


RA-43-E2
1545912

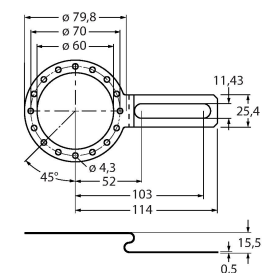
Stainless steel 4 1/2" C-face tether
149 mm reference diameter


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



RA-43-E

1545946

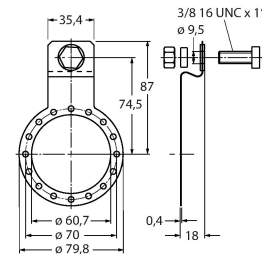
Stainless steel slotted fexmount
119mm reference diameter



RME-5

1544616

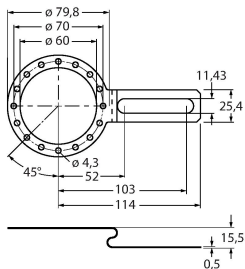
Stainless steel mounting panel for
hollow shaft encoders, reference
diameter 149 mm, for applications
with axial play



RME-6

1544617

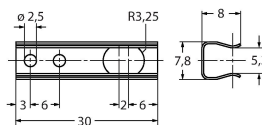
Stainless steel mounting panel for
hollow shaft encoders, reference
diameter 104...206 mm, for
applications with fixing points on
adjustable reference diameter



RME-10

1544621

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



RME-11

1544622

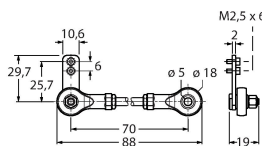
Stainless steel mounting element for
hollow shaft encoders, pitch diameter
76 mm, for applications with limited
mounting space



RME-15

1544626

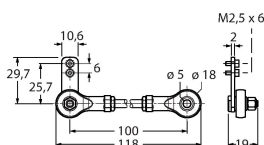
Metal arm bracket, for hollow
shaft encoders, length 70 mm; for
applications with little axial and radial
play; flexibly adjustable



RME-16

1544627

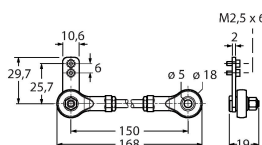
Metal arm bracket, for hollow shaft
encoders, length 100 mm; for
applications with little axial and radial
play; flexibly adjustable



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

