

RI-43HA4S8-2F1024-10MIL/N33/N40

Incremental Hollow Shaft Rotary Encoder

Industrial Line

Technical data

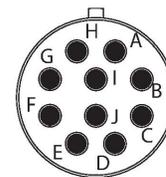
Type	RI-43HA4S8-2F1024-10MIL/N33/N40
ID	100040220
Measuring principle	Optical
General data	
Max. rotational speed	6000 rpm
Moment of inertia of the rotor	$220 \times 10^{-6} \text{ kgm}^2$
Starting torque	< 0.2 Nm
Output type	Incremental
Resolution incremental	1024 ppr
Electrical data	
Operating voltage 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	10-wire, Push-Pull 7272, with inverted signals
Mechanical data	
Flange type	Flange with mounting element
Flange diameter	$\varnothing 100 \text{ mm}$
Shaft Type	Hollow shaft
Shaft diameter D (mm)	15.875
Shaft diameter D	0.625 in
Shaft material	Stainless steel
Housing material	Die-cast zinc
Electrical connection	Connector, Mil-Spec - 10 pin
	10-pin
Axial shaft load	100 N
Radial shaft load	200 N



Features

- Flange with long arm bracket, $\varnothing 100 \text{ mm}$
- Hollow shaft, $\varnothing 5/8''$
- Code (N33) A leads B, Z gated with B+. Z is 180 deg wide.
- Code (N40) special wiring see catalog B1027 page E29
- Optical measuring principle
- Shaft material, stainless steel
- Protection class IP65 on shaft side
- $-40 \dots +70 \text{ }^\circ\text{C}$
- Max. 6000 rpm
- 5...30 VDC
- Male connector, MS 3106-18-1P, 10-pole
- Push-pull, with inverted signals
- Pulse frequency max. 300 kHz
- 1024 pulses per revolution

Wiring diagram



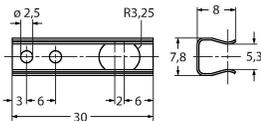
Technical data

Environmental conditions	
Ambient temperature	-40...+70 °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	Mounting arm, long

Accessories

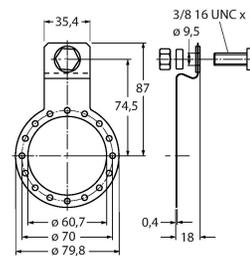
RA-43-S4 1545911

Stainless steel long anti-rotation spring 110 mm reference diameter



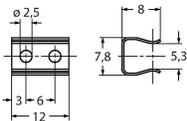
RA-43-E2 1545912

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



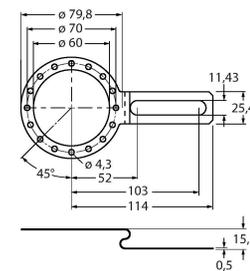
RA-43-S5 1545910

Stainless steel short anti-rotation spring 76 mm reference diameter



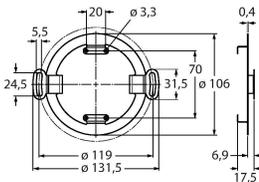
RA-43-S8 1545909

Stainless steel long tether arm 104 - 206 mm reference diameter



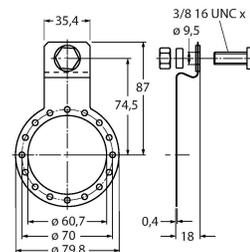
RA-43-E 1545946

Stainless steel slotted flexmount 119mm reference diameter



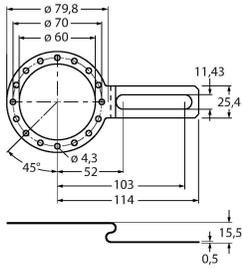
RME-5 1544616

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



RME-6

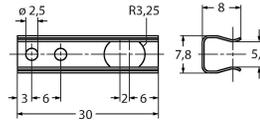
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Stainless steel mounting panel for hollow shaft encoders, reference diameter 104...206 mm, for applications with fixing points on adjustable reference diameter

RME-10

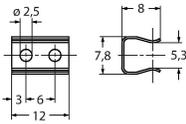
1544621



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

RME-11

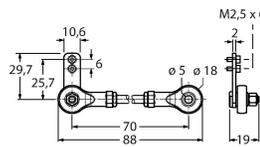
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Stainless steel mounting element for hollow shaft encoders, pitch diameter 76 mm, for applications with limited mounting space

RME-15

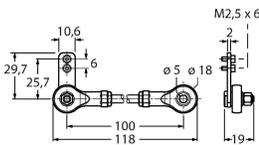
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Metal arm bracket, for hollow shaft encoders, length 70 mm; for applications with little axial and radial play; flexibly adjustable

RME-16

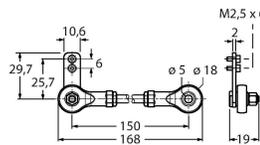
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Metal arm bracket, for hollow shaft encoders, length 100 mm; for applications with little axial and radial play; flexibly adjustable

RME-17

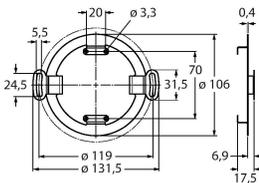
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Metal arm bracket, for hollow shaft encoders, length 150 mm; for applications with little axial and radial play; flexibly adjustable

RME-18

1544629



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