

RI-43HA6S5-2F2048-10MIL/N29/N40/N42

Incremental Hollow Shaft Rotary Encoder

Industrial Line

Technical data

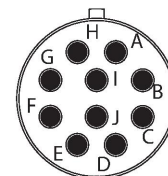
Type	RI-43HA6S5-2F2048-10MIL/N29/N40/N42
ID	200011898
Measuring principle	Optical
General data	
Max. Rotational Speed	6000 rpm
Moment of inertia of the rotor	$220 \times 10^{-6} \text{ kgm}^2$
Starting torque	< 0.2 Nm
Output type	Incremental
Resolution incremental	2048 ppr
Electrical data	
Operating voltage U_B	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	Blind hole shaft
Shaft diameter D (mm)	25.4
Shaft diameter D	25.4 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 short anti rotation spring(S5), $\varnothing 100 \text{ mm}$
- Hollow shaft, $\varnothing 1"$
- (N42) Isolation insert 1545824 RSA-A6 included
- (N29) B leads A, Z gated with B+. Z is 180 deg wide.
- (N40) Special wiring see catalog B1027 page E29
- 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, MS 3106-18-1P , 10-pole
- Push-pull, with inverted signals
- Pulse frequency max. 300 kHz
- 2048 pulses per revolution

Wiring diagram



Technical data

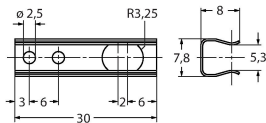
Environmental conditions

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	Spring element

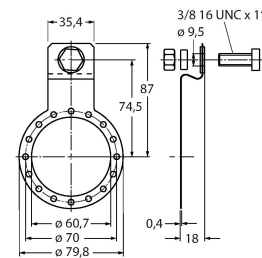
Accessories

RA-43-S4
1545911

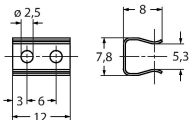
Stainless steel long anti-rotation spring 110 mm reference diameter


RA-43-E2
1545912

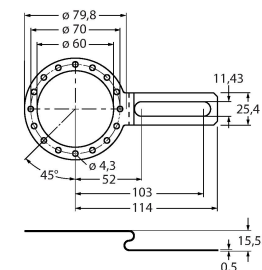
Stainless steel 4 1/2" C-face tether 149 mm reference diameter


RA-43-S5
1545910

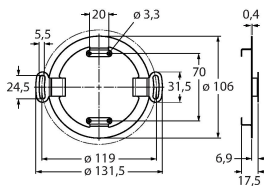
Stainless steel short anti-rotation spring 76 mm reference diameter


RA-43-S8
1545909

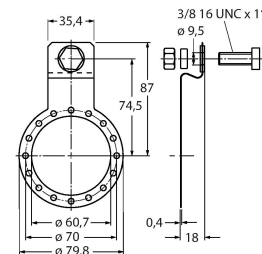
Stainless steel long tether arm 104 - 206 mm reference diameter


RA-43-E
1545946

Stainless steel slotted flexmount 119mm reference diameter

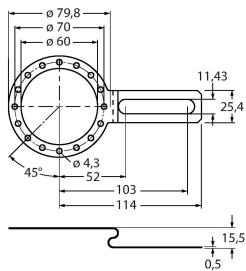

RME-5
1544616

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



RME-6

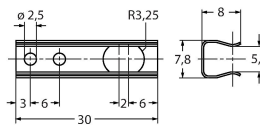
1544617



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

RME-10

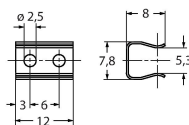
1544621



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

RME-11

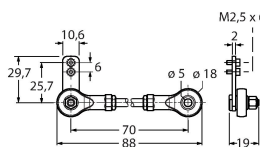
1544622



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

RME-15

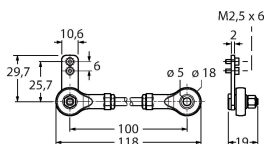
1544626



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

RME-16

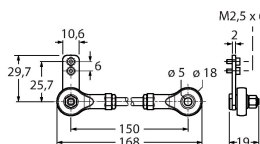
1544627



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

RME-17

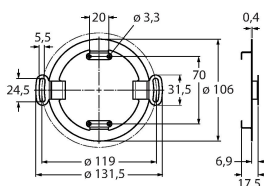
1544628



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