

RI-43HA6S8-2F1024-10MIL

Incremental Encoder

Industrial Line

Technical data

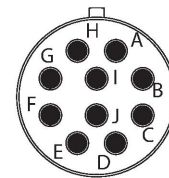
Type	RI-43HA6S8-2F1024-10MIL
ID	200003972
Measuring principle	Optical
General data	
Max. rotational speed	6000 rpm
Moment of inertia of the rotor	$220 \times 10^{-6} \text{ kgm}^2$
Starting torque	< 0.2 Nm
Output type	Incremental
Resolution incremental	1024 ppr
Electrical data	
Operating voltage U_B	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)	25.4
Shaft diameter D	1 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, $\varnothing 1"$
- Optical measuring principle
- Shaft material, stainless steel
- Protection class IP65 on shaft side
- -40...+70 °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

F	GND
D	U_B +
A	A
G	A inv.
B	B
H	B inv.
C	Z -
I	Z inv. -
J	shield



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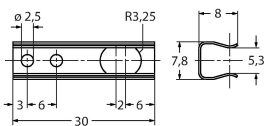
Environmental conditions

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

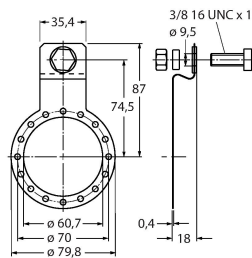
Accessories

RA-43-S4
1545911

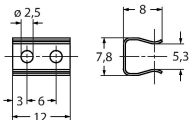
Stainless steel long anti-rotation
spring 110 mm reference diameter


RA-43-E2
1545912

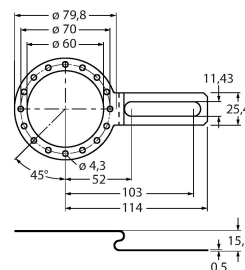
Stainless steel 4 1/2" C-face tether
149 mm reference diameter


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

