

RI-43H20S8-2B1024-12M23/N42

Incremental Hollow Shaft Rotary Encoder

Industrial Line

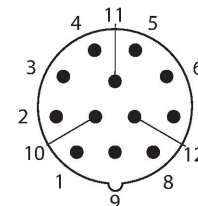
Technical data

Type	RI-43H20S8-2B1024-12M23/N42
ID	200016903
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	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	Push-Pull/HTL, 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)	20
Shaft material	Stainless steel
Housing material	Die-cast zinc
Electrical connection	Connector, M23
	M23, 12-pole
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

Features

- Flange with long arm bracket, $\varnothing 100 \text{ mm}$
- Hollow shaft, $\varnothing 20 \text{ mm}$
- Isolation insert 1545822 RSA-20 included. (N42)
- 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, M23 x 1, 12-pole
- Push-pull, with inverted signals
- Pulse frequency max. 300 kHz
- 1024 pulses per revolution

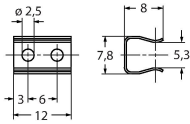
1	B inv.
2	$U_B \text{ sens}$ +
3	0 -
4	0 inv. -
5	A
6	A inv.
7	n.c.
8	B
9	n.c.
10	GND
11	0V sens
12	U_B +
PH	shield



RME-11

1544622

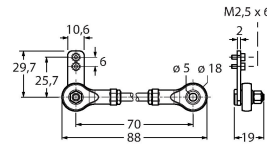
Stainless steel mounting element for hollow shaft encoders, pitch diameter 76 mm, for applications with limited mounting space



RME-15

1544626

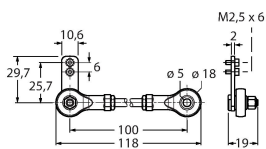
Metal arm bracket, for hollow shaft encoders, length 70 mm; for applications with little axial and radial play; flexibly adjustable



RME-16

1544627

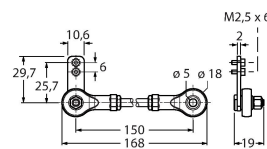
Metal arm bracket, for hollow shaft encoders, length 100 mm; for applications with little axial and radial play; flexibly adjustable



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

