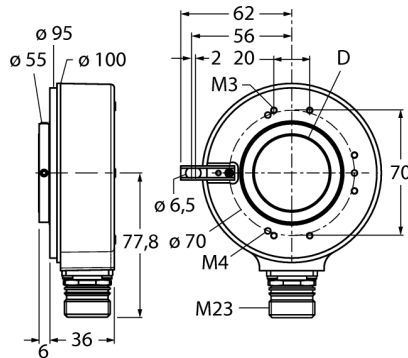


Incremental Encoder Industrial Line RI-42H30S4-2B2048-12M23

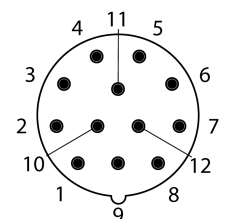


- Flange with long spring element, Ø 100 mm
- Hollow shaft, Ø 30 mm
- Optical measuring principle
- Shaft material: stainless steel
- Protection class IP65 on shaft side
- -40...+70 °C
- Max. 3000 rpm
- 10...30 VDC
- M23 × 1 male, 12-pin
- Push-pull, with inversion
- Pulse frequency max. 300 kHz
- 2048 pulses per revolution

Type	RI-42H30S4-2B2048-12M23
ID	1545229
Measuring principle	Optical
General data	
Max. rotational speed	3000 rpm
Moment of inertia of the rotor	$150 \times 10^{-8} \text{ kgm}^2$
Starting torque	< 0.2 Nm
Output type	Incremental
Resolution incremental	2048 ppr
Electrical data	
Operating voltage U_a	10...30 VDC
Output current	≤ 30 mA
Short-circuit protection	yes
Pulse frequency max.	300 kHz
Signal level high	min. $U_a - 3 \text{ V}$
Signal level low	max. 2.5 V
Mechanical data	
Flange type	Flange with mounting element
Flange diameter	Ø 100 mm
Shaft Type	Blind hole shaft
Shaft diameter D (mm)	30 mm
Shaft material	Stainless steel
Housing material	Die-cast zinc
Electrical connection	Connector, M23
	radial
Environmental conditions	
Ambient temperature	-40...+70 °C
Vibration resistance (EN 60068-2-6)	100 m/s ² , 10...2000 Hz
Shock resistance (EN 60068-2-27)	1000 m/s ² , 6 ms
Protection class housing	IP65
Protection class shaft	IP65
Included in delivery	Spring element, long

1	B inv.
2	U_B 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

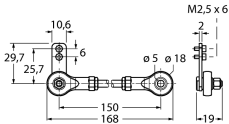
1	B inv.
2	U_B sens +
3	0 -
4	0 inv. -
5	A
6	A inv.
7	n.c.
8	B
9	n.c.
10	GND
11	0V sens
12	U_B +
PH	shield



Accessories

Type code	Ident no.		Dimension drawing
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	

Accessories

Type code	Ident no.		Dimension drawing
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	