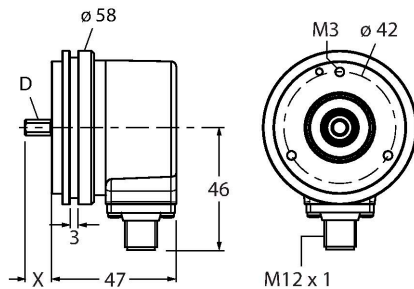


RI-10S6S-2B2048-H1181

Incremental Encoder

Industrial Line



Features

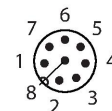
- Synchro flange, Ø 58 mm
- Solid shaft, Ø 6 mm × 10 mm
- Optical measuring principle
- Shaft material: stainless steel
- Protection class IP67 on housing and shaft side
- -40...+85 °C
- Max. 6000 rpm (continuous operation 3000 rpm)
- 10...30 VDC
- Push-pull/HTL with inversion
- Pulse frequency max. 300 kHz
- M12 × 1 male, 8-pin
- 2048 pulses per revolution

Technical data

Type	RI-10S6S-2B2048-H1181
Ident. no.	1545209
Measuring principle	Photoelectric
Max. Rotational Speed	6000 rpm
Moment of inertia of the rotor	1.8 x10 ⁻⁶ kgm ²
Starting torque	< 0.05 Nm
Ambient temperature	-40...+85 °C
Operating voltage	10...30 VDC
No-load current	≤ 100 mA
Output current	≤ 30 mA
Short-circuit protection	yes
Wire breakage/Reverse polarity protection	yes
Output function	Push-Pull/HTL, invertable
Output type	incremental
Resolution, incremental	2048 ppr
Pulse frequency max.	300 kHz
Signal level high	min. U _B - 1 V
Signal level low	max. 0.5 V
Design	Solid shaft
Flange type	Synchro flange
Flange diameter	Ø 58 mm
Shaft Type	Solid shaft
Shaft diameter D (mm)	6
Shaft length X	10 mm
Shaft material	Stainless steel
Housing material	Die-cast zinc

Wiring diagram

1	GND
2	U _B +
3	A
4	A inv.
5	B
6	B inv.
7	0 -
8	0 inv. -
PH	shield



Technical data

Electrical connection	Connectors, M12 × 1
	8-pin
Axial shaft load	50 N
Radial shaft load	100 N
Vibration resistance (EN 60068-2-6)	300 m/s ² , 10...2000 Hz
Shock resistance (EN 60068-2-27)	3000 m/s ² 6 ms
Protection class housing	IP67
Protection class shaft	IP67

Signal	Gnd	+U _s	A	A inv.	B	B inv.	0	0 inv.	Shield
Pin configuration	1	2	3	4	5	6	7	8	PH

Accessories

RCS-19-10-06

1545358

Technical drawing of the RCS-19-10-06 bellows coupling. The side view shows a total length of 29±1 mm, an outer diameter of 19 mm, and a bore diameter of 10 mm. The cross-section shows a 120° angle. Mounting holes are M3 x 4 DIN 916 (4x) with a diameter of 1.95 mm. Shaft diameters are labeled as ø d1 H8 and ø d2 H8.

Bellows coupling, outer diameter:
19 mm, bore diameter: 10 mm/6 mm

RCS-19-06-06

1545360

Technical drawing of the RCS-19-06-06 bellows coupling. The side view shows a total length of 29±1 mm, an outer diameter of 19 mm, and a bore diameter of 6 mm. The cross-section shows a 120° angle. Mounting holes are M3 x 4 DIN 916 (4x) with a diameter of 1.95 mm. Shaft diameters are labeled as ø d1 H8 and ø d2 H8.

Bellows coupling, outer diameter:
19 mm, bore diameter: 6 mm/6 mm

RCS-15-08-06

1545361

Technical drawing of the RCS-15-08-06 bellows coupling. The side view shows a total length of 22±1 mm, an outer diameter of 15 mm, and a bore diameter of 8 mm. The cross-section shows a 120° angle. Mounting holes are M3 x 4 DIN 916 (4x) with a diameter of 2.0 mm. Shaft diameters are labeled as ø d1 H8 and ø d2 H8.

Bellows coupling, outer diameter:
15 mm, bore diameter: 8 mm/6 mm

RCS-15-06-04

1545363

Technical drawing of the RCS-15-06-04 bellows coupling. The side view shows a total length of 22±1 mm, an outer diameter of 15 mm, and a bore diameter of 6 mm. The cross-section shows a 120° angle. Mounting holes are M3 x 4 DIN 916 (4x) with a diameter of 2.0 mm. Shaft diameters are labeled as ø d1 H8 and ø d2 H8.

Bellows coupling, outer diameter:
15 mm, bore diameter: 6 mm/4 mm