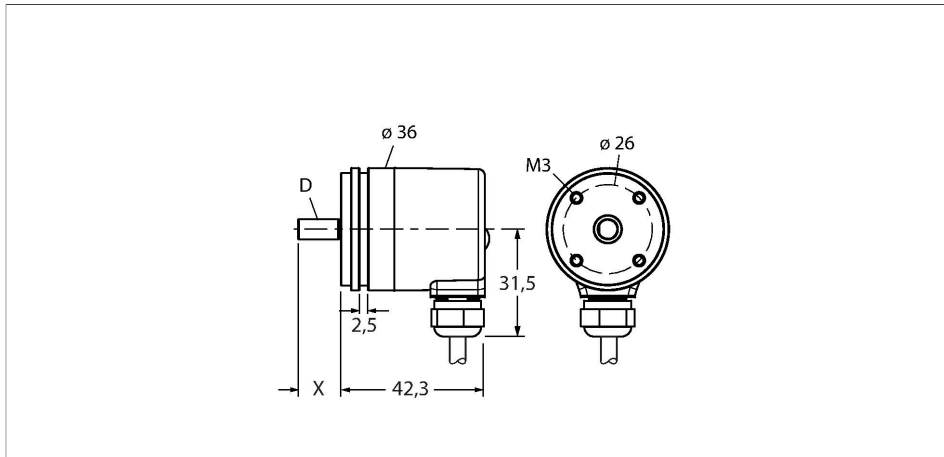


# RS-06S6S-7A12B-C 1M

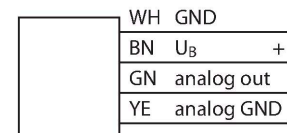
## Absolute Rotary Encoder - Single-Turn Industrial Line



### Features

- Synchro flange, Ø 36 mm
- 
- Magnetic measuring principle
- Shaft material: stainless steel
- Protection class IP69K on shaft side
- -40...+85 °C
- Max. 6000 rpm
- 10...30 VDC
- Analog output 4...20 mA
- Cable connection
- 360° resolved in 12 bit (4096 positions)

### Wiring diagram



### Technical data

Type	RS-06S6S-7A12B-C 1M
ID	1544037
Remark to product	Turck description incorrect, therefore locked
Measuring principle	Magnetic
<b>General data</b>	
Max. Rotational Speed	6000 rpm
Starting torque	< 0.06 Nm
Measuring range	0...360 °
Repeatability (at 25 °C)	± 0.2 °
Absolute accuracy (at 25 °C)	± 1 °
Output type	Absolute singleturn
Resolution singleturn	12 Bit
<b>Electrical data</b>	
Operating voltage	10...30 VDC
No-load current	38 mA
Short-circuit protection	yes
Output function	4-wire, Analog output
Current output	4...20 mA
<b>Mechanical data</b>	
Design	Solid shaft
Flange type	Synchro flange
Flange diameter	Ø 36 mm

## Technical data

Shaft Type	Solid shaft
Shaft diameter D [mm]	6
Shaft Length L [mm]	12.5
	Shaft with flat
Shaft material	Stainless steel
Housing material	Die-cast zinc
Electrical connection	Cable
	radial
cable length	1 m
Axial shaft load	20 N
Radial shaft load	40 N
<b>Environmental conditions</b>	
Ambient temperature	-40...+85 °C
Vibration resistance (EN 60068-2-6)	10...2000 Hz, 300 m/s <sup>2</sup> - rms
Shock resistance (EN 60068-2-27)	5000 m/s <sup>2</sup> , 6 ms
Protection class housing	IP69k
Protection class shaft	IP69k

Signal	Gnd	+U <sub>b</sub>	Analog output	n.c.	n.c.				
Corecolor	WH	BN	GN	GY	PK	-	-	-	-