

RS-180SA0S-7AAR-CA3M/N0

Absolute Shaft Encoder

Industrial Line

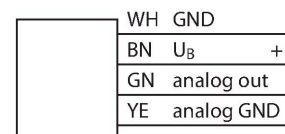
Technical data

Type	RS-180SA0S-7AAR-CA3M/N0
ID	200006917
Measuring principle	Magnetic
General data	
Max. rotational speed	4000 rpm
Measuring range	0...360 °
Repetition accuracy	± 0.2 ° At 25 °C
Absolute accuracy	± 1 ° At 25 °C
Output type	Absolute singleturn
Resolution singleturn	12 Bit
Electrical data	
Operating voltage U_B	10...30 VDC
No-load current	≤ 30 mA
Short-circuit protection	yes
Output function	4-wire, Analog output
Current output	4...20 mA
Mechanical data	
Flange type	Synchro flange
Flange diameter	Ø 36 mm
Shaft Type	Solid shaft
Shaft diameter D (mm)	10
Shaft Length L [mm]	20
Shaft material	Stainless Steel
Housing material	Die-cast zinc
Electrical connection	Cable
	radial
cable length	3 m
Axial shaft load	20 N
Radial shaft load	40 N
Environmental conditions	
Ambient temperature	-40...+85 °C
Vibration resistance (EN 60068-2-6)	30 g (300 m/s ²), 10...2000 Hz
Shock resistance (EN 60068-2-27)	500 g (2500 m/s ²), 4 ms

Features

- Absolute Shaft Encoder
- IP67 rated on the shaft side
- -40...+85 °C
- Max. 4000 rev/min
- 10...30 VDC
- Analog output 4...20 mA
- Cable connection
- 360° resolved in 12 bit (4096 positions)

Wiring diagram



Technical data

Protection class shaft

IP67
