

Absolute Rotary Encoder - Singleturn

Industrial Line

RS-24S6C-3C13B-H1481

Type	RS-24S6C-3C13B-H1181
ID	1545234

Measuring principle	Optical
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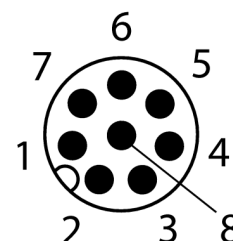
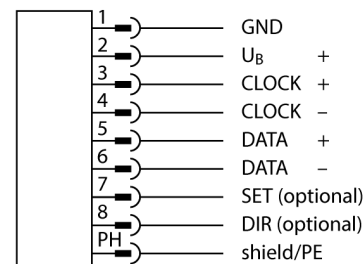
General data	
Max. rotational speed	9000 rpm
Moment of inertia of the rotor	$3 \times 10^{-6} \text{ kgm}^2$
Starting torque	< 0.05 Nm
Measuring range	0...360°
Absolute accuracy	±0.015° At 25 °C
Output type	Absolute singleturn
Resolution singleturn	13 Bit

Electrical data	
Operating voltage U_B	10...30 VDC
Output current	≤ 20 mA
Short-circuit protection	yes
Signal level high	typ. 3.8 V
Signal level low	typ. 1.3 V (20 mA load)
Communication protocol	SSi

Mechanical data	
Flange type	Clamping flange
Flange diameter	Ø 58 mm
Shaft Type	Solid shaft
Shaft diameter D (mm)	6 mm
Shaft Length L [mm]	10 mm
Shaft material	Stainless steel
Housing material	Die-cast zinc
Electrical connection	Connector, M12 × 1
	8-pin
Axial shaft load	40 N
Radial shaft load	80 N

Environmental conditions	
Ambient temperature	-40...+70 °C
Vibration resistance (EN 60068-2-6)	100 m/s², 55...2000 Hz
Shock resistance (EN 60068-2-27)	2500 m/s², 6 ms
Protection class housing	IP67
Protection class shaft	IP67

- Clamping flange, Ø 58 mm
- Solid shaft, Ø 6 mm × 10 mm
- Optical measuring principle
- Shaft material: stainless steel
- IP67 rated on shaft side
- -40...+70 °C
- Max. 9000 rpm
- 10...30 VDC
- SSI, gray
- M12 × 1 male, 8-pin
- 360° resolved in 13 bit (8192 positions)



Accessories

Type code	Ident no.		Dimension drawing
RCS-15-06-06	1545362	Bellows coupling, outer diameter: 15 mm, bore diameter: 6 mm/6 mm	
RCS-15-08-06	1545361	Bellows coupling, outer diameter: 15 mm, bore diameter: 8 mm/6 mm	
RFA-2	1544631	Aluminium flange adapter, rectangular, for solid shaft encoders with clamping flange; edge length 63.5 mm; 3 mm thick	
RFA-4	1544633	Euro flange – aluminium flange adapter for solid shaft encoders, Ø 115 mm; reference diameter 100 mm; adapts 58 mm clamping flange to Euro flange	
RFA-6	1544635	Aluminium flange adapter for solid shaft encoders with clamping flange, Ø 58 mm; adapts clamping flange to synchro flange	
RFA-7	1544636	Aluminium flange adapter for solid shaft encoders, Ø 65 mm; adapts to Ø 65 mm flange and 48 mm reference diameter	

Accessories

Type code	Ident no.		Dimension drawing
RFA-1	1544630	Aluminium flange adapter, rectangular, for solid shaft encoders with clamping flange; edge length 58 mm; 4 mm thick	