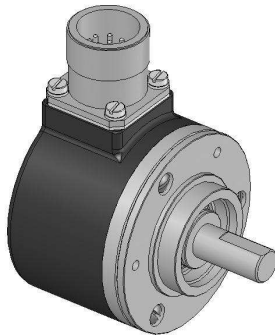


RCI58B FS

Shaft - Incremental Optical Encoder



PRECILEC optical incremental encoders are designed for accurately measuring speed and position of rotating shafts in industrial environment: machine tools, motor drives ...

They use a differential optical measurement and a ratio-metric processing of the signal for minimizing the temperature and photodiode aging effects.

Their universal complementary push-pull output interface and their large supply voltage range make them very easy to connect to most of electronic control units with high noise immunity.



Main features

- | | |
|----------------------|--|
| • Shaft type | Full shaft Ø6, 10 mm and 1/4, 3/8 " |
| • Housing diameter | 58 mm |
| • Fixation | Standard flange, US square flange, or synchro-flange |
| • Body - Cover | Aluminium - Zamac |
| • Shaft | Stainless steel |
| • Pulses per turn | 1024 and 2048 |
| • Output signals | A & B with gated Z |
| • Termination | 1 meter radial cable |
| • Operating T° range | - 25°C / + 85°C |

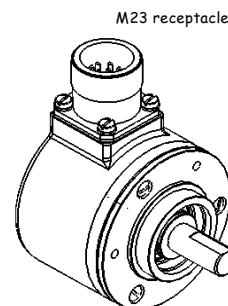
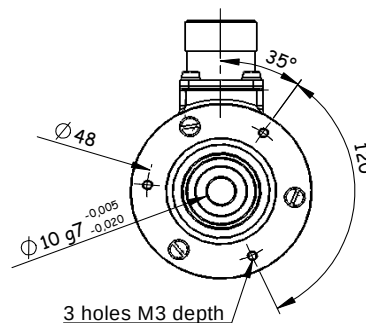
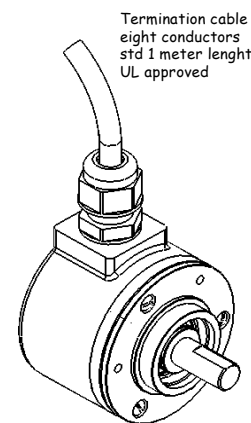
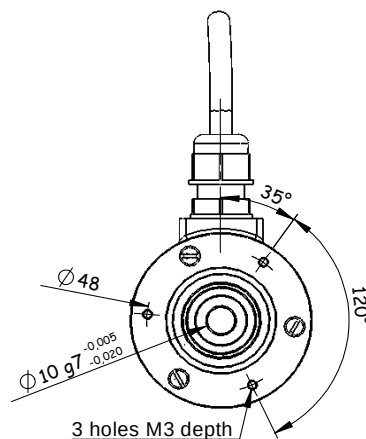
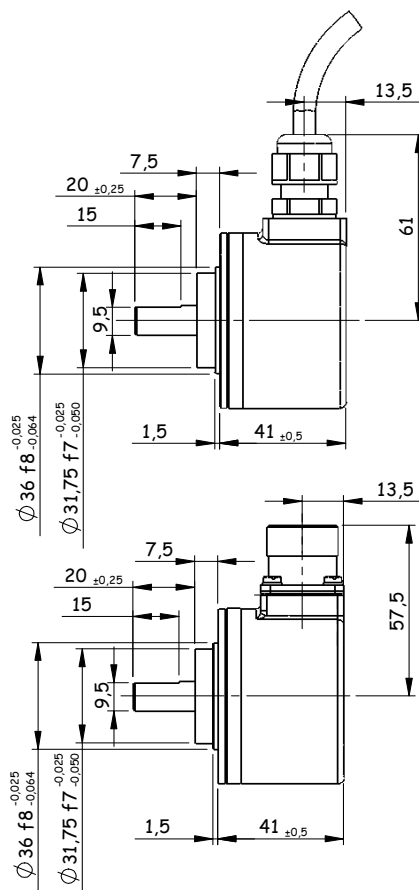


Distribución de componentes
eléctricos y electrónicos

Tel.: (+34) 902 450 160
Fax: (+34) 902 433 088
ermec@ermec.com
www.ermec.com

Outline drawings

Standard flange version (S)



RCI58B FS

Shaft - Incremental Optical Encoder

Electrical characteristics

- Supply voltage 4,5 to 30 Vdc with reverse polarity protection
- No load supply current 100 mA under 4.5 V – 25 mA under 24 V
- Output signals Universal complementary push-pull (short circuit protected, 7272)
RS422 compatible with 5 V supply voltage
- Max output frequency 300 kHz
- Max load current 20 mA max per channel
- EMC According to EN 61000-6-2 and EN 61000-6-4

Connections

	Cable UL - 8 wires	M23 – CW	MS310	Output waveforms
A	white	5	A	
A /	yellow	6	H	
B	blue	8	B	
B /	orange	1	I	
Z	green	3	C	
Z /	brown	4	J	
Vcc (+)	red	12	D	
Gnd (-)	black	10	F	
Ground case	Drain	9	G	

Mechanical characteristics

- Max continuous speed 10 000 rpm
- Starting torque < 0.5 N.cm
- Max. shaft load Axial : 40 N ; Radial : 80 N
- Shaft Inertia 70 gr.cm²
- Weight 300 gr
- Protection IP 65 at housing (IEC 60529) and IP64 at shaft end
- Max shock 100 g, 6 ms (IEC 68-2-27)
- Max vibrations 10 g, 10-2000 Hz (IEC 68-2-6)
- Theoretical bearings life 25 % max load 50 % max load 100 % max load
(x 10⁹ revolutions) 1 300 230 40

Ordering code

RCI58B-FS10-S-01024-CA01

Ø Flange Resolution Connection

- Diameters** 06 (6 mm), 10 (10 mm), U1 (1/4"), U2 (3/8")
- Flanges** S (standard), U (US square flange), Y (synchro)
- Standard resolutions** 1024, 2048 and others resolutions upon request
- Connections** CA01: one meter cable, other lengths on request
23C1: M23 connector, 12 pins clockwise (CW)
MILP: MS310 connector, 10 pins
Other connections on request



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