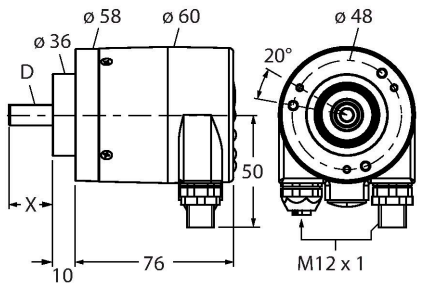
RM-29S10C-9E28B-R3M12
Absolute Rotary Encoder - Multiturn
Industrial Line



Features

- Clamping flange, Ø 58 mm
- Solid shaft, Ø 10 mm × 20 mm
- Optical measuring principle
- Shaft material: stainless steel
- Protection class IP65 on shaft side
- -40…+85 °C
- Max. 6000 rpm
- PROFINET
- Removable bus cover with male, 3 × M12
- Singleturn, resolution scalable to 16 bit (default 13-bit)
- Multiturn resolution max. 12 bit, scalable

Technical data

Type	RM-29S10C-9E28B-R3M12
ID	1545391
Measuring principle	Optical
General data	
Max. Rotational Speed	6000 rpm
Moment of inertia of the rotor	4 × 10^{-6} kgm²
Starting torque	< 0.01 Nm
Output type	Absolute multiturn
Resolution singleturn	16 Bit
Resolution multiturn	12 Bit
	single-turn scalable
Electrical data	
Operating voltage	10…30 VDC
No-load current	200 mA
Wire breakage/Reverse polarity protection	yes
Communication protocol	PROFINET
Mechanical data	
Design	Solid shaft
Flange type	Clamping flange
Flange diameter	Ø 58 mm
Shaft Type	Solid shaft
Shaft diameter D [mm]	10
Shaft Length L [mm]	20

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Technical data

Shaft material	Stainless steel
Housing material	Die-cast zinc
Electrical connection	Bus connection
	3 x M12
Axial shaft load	40 N
Radial shaft load	80 N
Environmental conditions	
Ambient temperature	-40…+85 °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	IP65

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