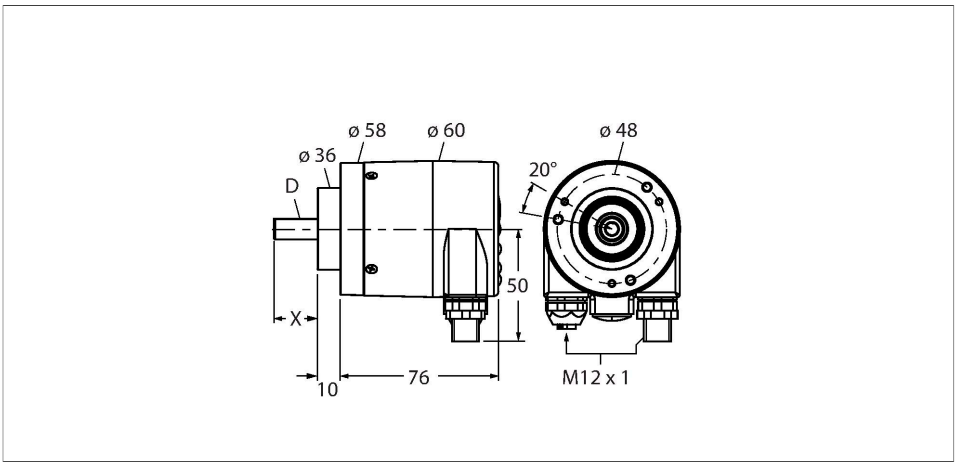
RM-29S6C-9A28B-R3M12
Absolute Rotary Encoder - Multiturn
Industrial Line



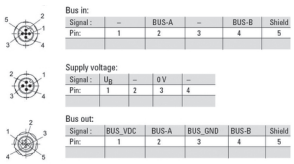
Features

- Clamping flange, Ø 58 mm
- Solid shaft, Ø 6 mm × 10 mm
- Optical measuring principle
- Shaft material: stainless steel
- Protection class IP67 on shaft side
- -40…+80 °C
- Max. 3000 rpm
- Profibus
- 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-29S6C-9A28B-R3M12
ID	1544413
Measuring principle	Optical
General data	
Max. rotational speed	3000 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 U_B	10…30 VDC
No-load current	≤ 120 mA
Wire break/reverse polarity protection	yes
Communication protocol	PROFIBUS-DP
Mechanical data	
Flange type	Clamping flange
Flange diameter	Ø 58 mm
Shaft Type	Solid shaft
Shaft diameter D (mm)	6
Shaft Length L [mm]	10
Shaft material	Stainless steel

Wiring diagram



Technical data

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…+80 °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