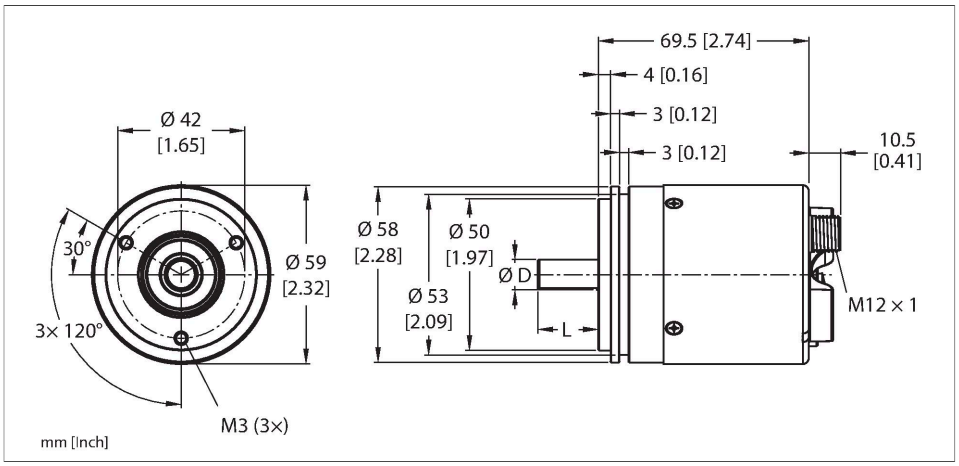
RM-105T10S-9N43B-B3M12
Absolute Rotary Encoder - Multiturn
Industrial Line



Technical data

Type	RM-105T10S-9N43B-B3M12
ID	200010781
Measuring principle	Optical
General data	
Max. rotational speed	9000 rpm
Moment of inertia of the rotor	3 × 10^{-6} kgm²
Absolute accuracy	± 0.015 ° At 25 °C
Output type	Absolute multiturn
Resolution singleturn	19 Bit
Resolution multiturn	24 Bit
	Singleturn scalable
Electrical data	
Operating voltage U_B	10…30 VDC
No-load current	≤ 250 mA
Short-circuit protection	yes
Wire break/reverse polarity protection	yes
Communication protocol	EtherNet/IP
Mechanical data	
Flange type	Synchro flange
Flange diameter	Ø 58 mm
Shaft Type	Solid shaft
Shaft diameter D (mm)	10
Shaft Length L [mm]	20

Features

- Ø 58 mm servo flange
- Solid shaft, Ø 10mm x 20mm
- Optical measuring principle
- Shaft material, stainless steel
- Protection class IP65 on the shaft side
- -40…+80°C
- max. 9000 rev / min
- 10…30 VDC
- Ethernet/IP
- M12 × 3 male connector, 4-pin
- Singleturn resolution scalable to 19 bit (default 18 bit)
- Multiturn resolution scalable to 24 bit (default 12 bit)

Technical data

Shaft material	Stainless steel
Housing material	Aluminium
Electrical connection	Connector, 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)	10 g (100 m/s²), 55…2000 Hz
Shock resistance (EN 60068-2-27)	250 g (2500 m/s²), 6 ms
Protection class	IP65
Protection class shaft	IP65

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