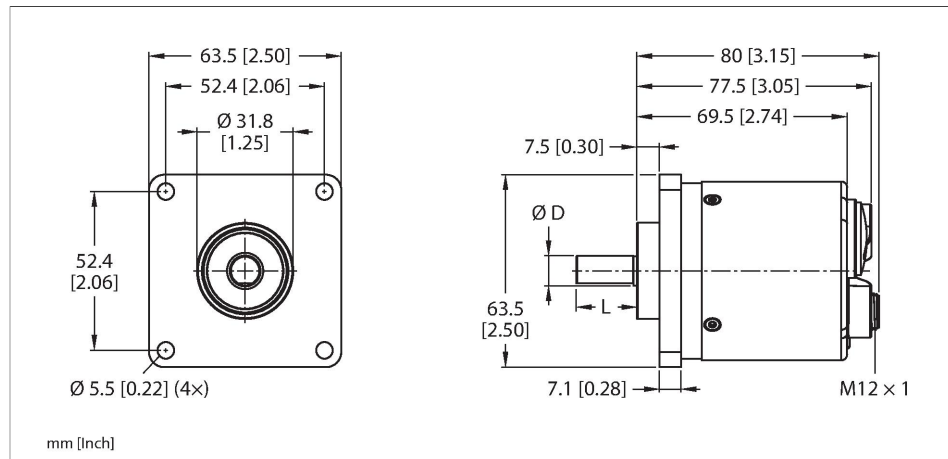


RM-105TA1R-9N43B-B3M12

Absolute Rotary Encoder - Multiturn

Industrial Line



Technical data

Type	RM-105TA1R-9N43B-B3M12
ID	200010776
Measuring principle	Optical
General data	
Max. rotational speed	9000 rpm
Moment of inertia of the rotor	$6 \times 10^{-6} \text{ kgm}^2$
Absolute accuracy	$\pm 0.015^\circ$ 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	$\leq 250 \text{ mA}$
Short-circuit protection	yes
Wire break/reverse polarity protection	yes
Communication protocol	EtherNet/IP
Mechanical data	
Flange type	Rectangular flange
Flange diameter	$\varnothing 63.5 \text{ mm}$
Shaft Type	Solid shaft
Shaft diameter D (mm)	9.525
Shaft diameter D	0.375 in

Features

- Square flange, $\varnothing 63.5 \text{ mm}$
- Solid shaft, $\varnothing 3/8" \times 7/8"$
- Optical measuring principle
- Shaft material, stainless steel
- Protection class IP65 on the shaft side
- $-40...+80^\circ\text{C}$
- max. 9000 rev / min
- 10...30 VDC
- Ethernet/IP
- M12 x 1 male connector for power, 4-Pin A-code
- (2X) M12 female connector for data, 4-pin-D-code
- Singleturn resolution scalable to 19 bit (default 18 bit)
- Multiturn resolution scalable to 24 bit (default 12 bit)

Technical data

Shaft Length L [mm]	22.225
Shaft length (L)	0.875 in
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/s ²), 55...2000 Hz
Shock resistance (EN 60068-2-27)	250 g (2500 m/s ²), 6 ms
Protection class	IP65
Protection class shaft	IP65