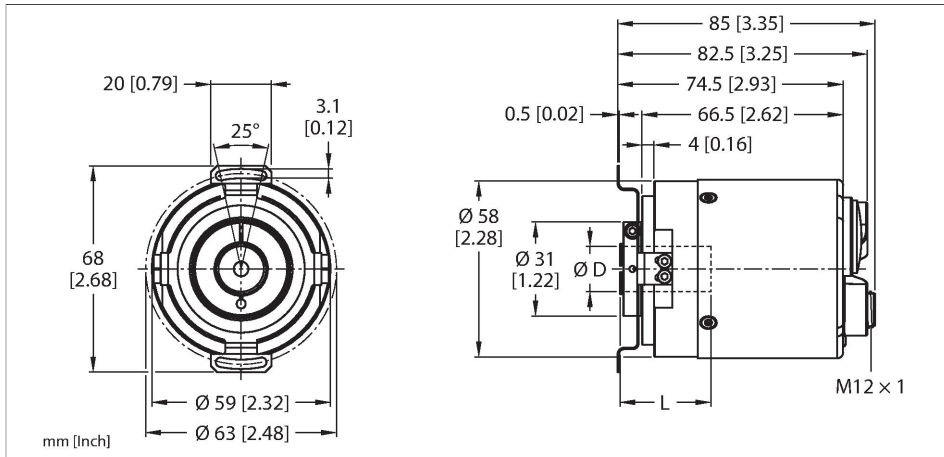


RS-108BA1E-9N19B-B3M12

Absolute Rotary Encoder - Singleturn

Industrial Line



Technical data

Type	RS-108BA1E-9N19B-B3M12
ID	200010787
Measuring principle	Optical
General data	
Max. rotational speed	9000 rpm
Moment of inertia of the rotor	$6 \times 10^{-6} \text{ kgm}^2$
Measuring range	0...360 °
Absolute accuracy	$\pm 0.015^\circ$ At 25 °C
Output type	Absolute singleturn
Resolution singleturn	19 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	Flange with stator coupling
Flange diameter	$\varnothing 63 \text{ mm}$
Shaft Type	Blind hole shaft
Shaft diameter D (mm)	9.525
Shaft diameter D	0.375 in

Features

- Flange with slotted flex mount, $\varnothing 63\text{mm}$
- Hollow shaft, $\varnothing 3/8 \text{ in. (9.525mm)}$
- Optical measuring principle
- Shaft material, stainless steel
- IP67 rated on shaft side
- -40...+80 °C
- Max. 9000 rpm
- 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 up to 19 bit, default 18 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/s ²), 55...2000 Hz
Shock resistance (EN 60068-2-27)	250 g (2500 m/s ²), 6 ms
Protection class	IP67
Protection class shaft	IP67