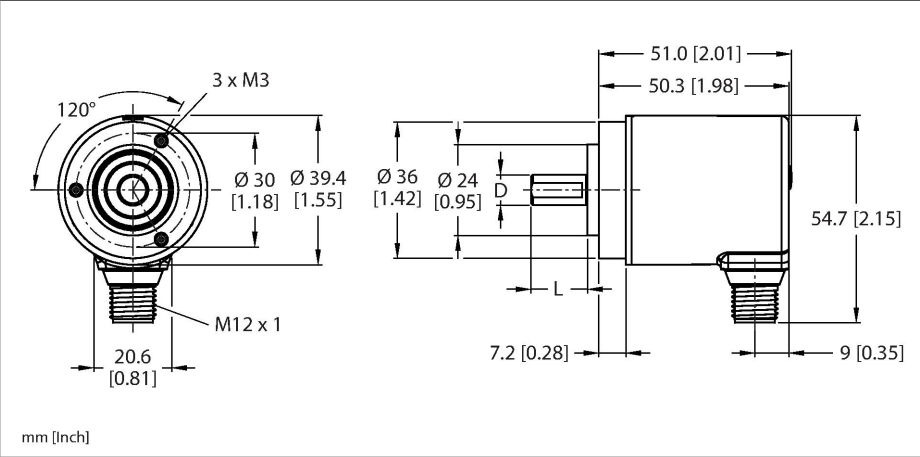


REM-101S6C-9D38B-H1151

Absolute Rotary Encoder - Multiturn Industrial Line



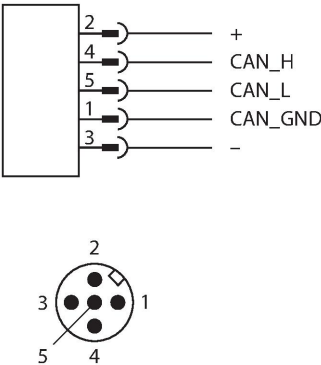
Technical data

Type	REM-101S6C-9D38B-H1151
ID	100011359
Measuring principle	Magnetic
General data	
Max. rotational speed	4000 rpm
Moment of inertia of the rotor	$1.8 \times 10^{-5} \text{ kgm}^2$
Starting torque	$< 0.01 \text{ Nm}$
Repetition accuracy	$\pm 0.2^\circ \text{ At } 25^\circ \text{C}$
Absolute accuracy	$\pm 1^\circ \text{ At } 25^\circ \text{C}$
Output type	Absolute multiturn
Electrical data	
Operating voltage U_B	10...30 VDC
No-load current	$\leq 30 \text{ mA}$
Short-circuit protection	yes
Wire break/reverse polarity protection	yes
Communication protocol	CANopen
Interface	CAN High-Speed in accordance with ISO 11898, basic and full CAN, CAN specification 2.0 B
Node ID	1...127 mit Software konfigurierbar; Werkseinstellung: 63
Baud rate	10...1000 kbps configurable with software
Mechanical data	
Flange type	Clamping flange
Flange diameter	$\varnothing 36 \text{ mm}$
Shaft Type	Solid shaft

Features

- Clamping flange, $\varnothing 36 \text{ mm}$
- Solid shaft, $\varnothing 6 \text{ mm} \times 12.5 \text{ mm}$
- Magnetic measuring principle
- Shaft material: stainless steel
- Protection class IP67 on housing and shaft side
- $-40 \dots +85^\circ \text{C}$
- Max. 4000 rpm (continuous operation 2000 rpm)
- Energy harvesting technology
- 10...30 VDC
- CANopen
- M12 $\times 1$ male connector, 5-pin
- Singleturn resolution 14 bit scalable, default 14 bit
- Multiturn resolution scalable up to 16 bit over total resolution
- Total resolution 32 bit scalable, default: 32 bit

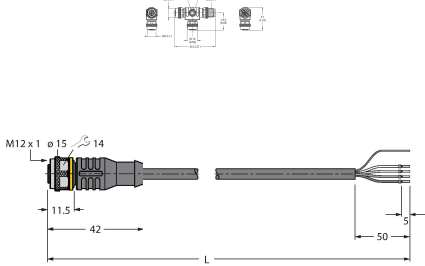
Wiring diagram



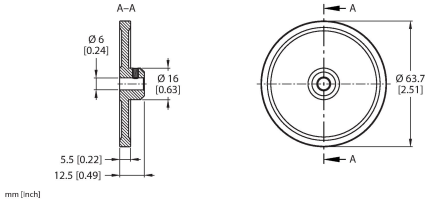
Technical data

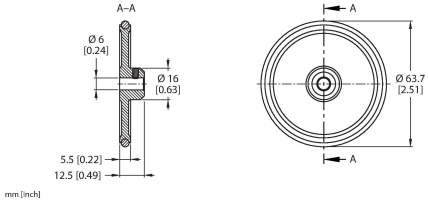
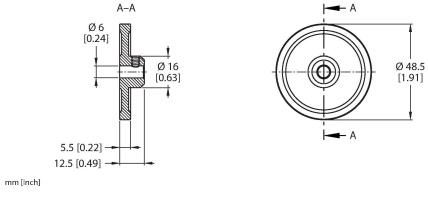
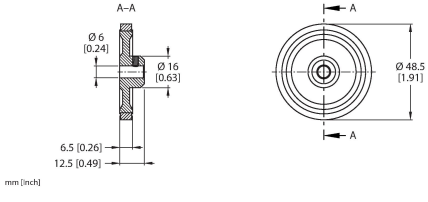
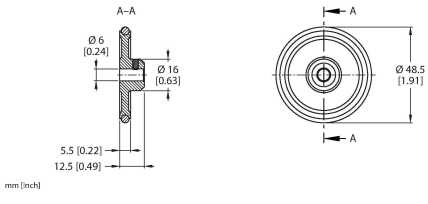
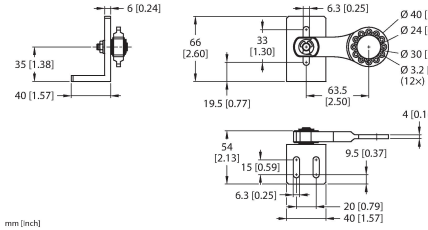
Shaft diameter D (mm)	6
Shaft Length L [mm]	12.5
Shaft material	Stainless steel
Housing material	Die-cast zinc
Electrical connection	Connector, M12 × 1
	5-pin
Axial shaft load	20 N
Radial shaft load	40 N
Environmental conditions	
Ambient temperature	-40...+85 °C
Vibration resistance (EN 60068-2-6)	300 m/s², 10...2000 Hz
Shock resistance (EN 60068-2-27)	2500 m/s², 6 ms
Protection class	IP67
Protection class shaft	IP67

Accessories

Dimension drawing	Type	ID	
	FSM-2FKM57	6622101	CANopen/DeviceNet/power supply T-splitter, 1 × M12 male connector, 2 × M12 female connector, 5-pin
	RKC5701-5M	6931034	Bus cable for CAN (DeviceNet, - CANopen), M12 female connector, straight, cable length: 5 m, jacket material: PUR, anthracite; cULus approval

Accessories

Dimension drawing	Type	ID	
	RA-MW-200-5.5-DK1-6	100038295	Aluminum measuring wheel (cross knurled) for encoders; circumference 0.2 m, width 5.5 mm, D = 6 mm
	RA-MW-200-6.5-PS1-6	100038296	Aluminum measuring wheel (smooth PU) for encoders; circumference 0.2 m, width 6.5 mm, D = 6 mm

Dimension drawing	Type	ID	
	RA-MW-200-5.5-OR1-6	100038298	Aluminum measuring wheel (O-ring) for encoders; circumference 0.2 m, width 5.5 mm, D = 6 mm
	RA-MW-B0-5.5-DK1-6	100038299	Aluminum measuring wheel (cross knurled) for encoders; circumference 6", width 5.5 mm, D = 6 mm
	RA-MW-B0-6.5-PS1-6	100038300	Aluminum measuring wheel (smooth PU) for encoders; circumference 6", width 6.5 mm, D = 6 mm
	RA-MW-B0-5.5-OR1-6	100038301	Aluminum measuring wheel (O-ring) for encoders; circumference 6", width 5.5 mm, D = 6 mm
	RA-SAB-5-24	100038293	Spring arm for small absolute encoders with a 36-mm flange; recommended contact pressure 5 N; maximum contact pressure 20 N