

REM-102B8E-9D38B-H1151

Absolute Rotary Encoder - Multiturn Industrial Line



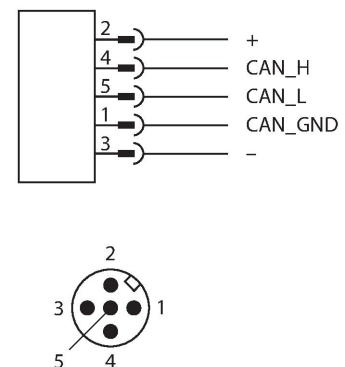
Technical data

Type	REM-102B8E-9D38B-H1151
ID	100011368
Measuring principle	Magnetic
General data	
Max. Rotational Speed	4000 rpm
Moment of inertia of the rotor	$6 \times 10^{-6} \text{ kgm}^2$
Starting torque	$< 0.01 \text{ Nm}$
Repetition accuracy	$\pm 0.2^\circ$ At 25°C
Absolute accuracy	$\pm 1^\circ$ At 25°C
Output type	Absolute multiturn
Electrical data	
Operating voltage	10...30 VDC
No-load current	30 mA
Short-circuit protection	yes
Wire breakage/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	
Design	Hollow shaft
Flange type	Flange with stator coupling
Flange diameter	$\varnothing 46 \text{ mm}$

Features

- Flange with stator coupling, $\varnothing 46 \text{ mm}$
- Blind hole hollow shaft, $\varnothing 8 \text{ mm}$ (plug-in depth max. 18.5 mm)
- Magnetic measuring principle
- Shaft material: stainless steel
- Protection class IP67 on housing and shaft side
- $-40...+85^\circ\text{C}$
- Max. 4000 rpm (continuous operation 2000 rpm)
- Energy harvesting technology
- 10...30 VDC
- CANopen
- M12 x 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

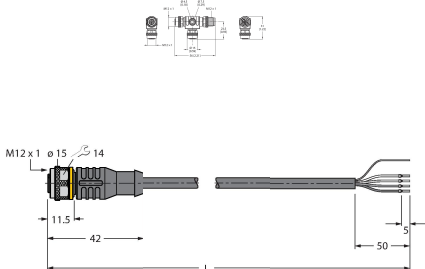
Wiring diagram



Technical data

Shaft Type	Blind hole shaft
Shaft diameter D [mm]	8
Shaft Length L [mm]	18.5
Outer diameter of compression fitting D1	25.5 mm
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