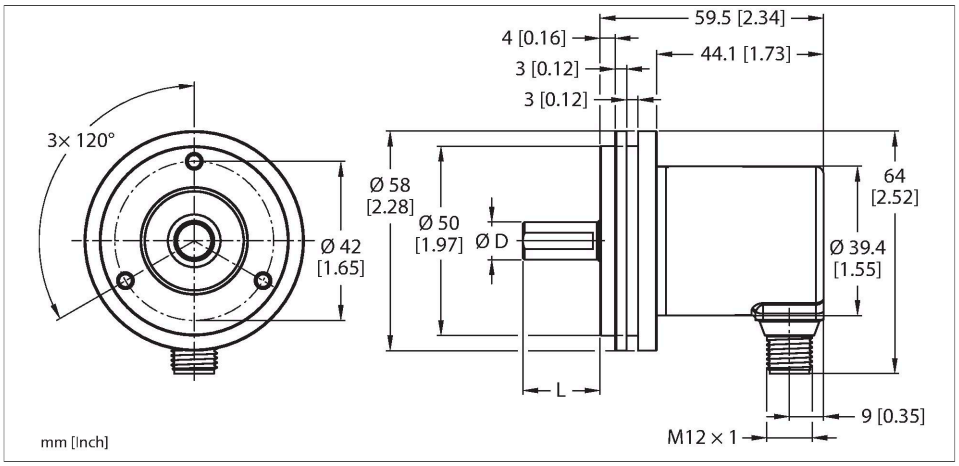
REM-E-121T10S-9D38B-H1151
Absolute Rotary Encoder - Multiturn
Efficiency Line



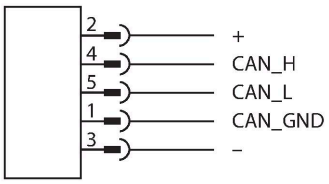
Technical data

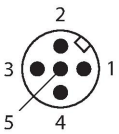
Type	REM-E-121T10S-9D38B-H1151
Ident. no.	100011518
Measuring principle	Optical
Max. Rotational Speed	4000 rpm
Repeatability (at 25 °C)	± 0.2 °
Absolute accuracy (at 25 °C)	± 1 °
Ambient temperature	-20…+70 °C
Operating voltage	10…30 VDC
No-load current	≤ 90 mA
Short-circuit protection	yes
Wire breakage/Reverse polarity protection	yes
Output type	Absolute multiturn
Communication protocol	CANopen
Interface	CAN high-speed acc. to ISO 11898, Basicand Full-CAN, CAN specification 2.0 B
Node ID	1…127 mit Software konfigurierbar
Baud rate	10…1000 kbps can be configured using software
Design	Solid shaft
Flange type	Synchro flange
Flange diameter	Ø 58 mm
Shaft Type	Solid shaft
Shaft diameter D [mm]	10

Features

- Ø 58 mm servo flange
- Solid shaft, Ø 10mm x 20mm
- Optical measuring principle
- Shaft material, stainless steel
- Protection class IP64 on housing and shaft side
- -20…+70 °C
- Max. 4000 rpm (continuous operation 2000 rpm)
- Energy harvesting technology
- 10-30 VDC
- CANopen DS 406 V4.0
- M12 connection, 5-pin
- Singleturn resolution 14 bit scalable, default 13 bit
- Multiturn resolution max. 24 bit scalable via total resolution
- Total resolution 38 bit scalable, default 25 bit

Wiring diagram





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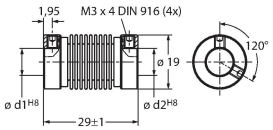
Technical data

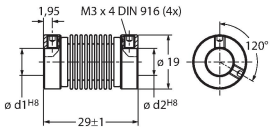
Wavelength L [mm]	20
Shaft material	Stainless Steel
Housing material	Die-cast zinc
Electrical connection	Connector, M12 × 1
	M12, 5-pole
Axial shaft load	40 N
Radial shaft load	80 N
Vibration resistance (EN 60068-2-6)	30 g (300 m/s²), 10…2000 Hz
Shock resistance (EN 60068-2-27)	500 g (2500 m/s²), 4 ms
Protection class	IP64
Protection class shaft	IP64

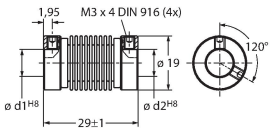
Mounting instructions

Mounting instructions/Description
CANbus connection The CANopen encoders are equipped with an M12 connector and can be terminated in the device. The devices are not equipped with an integrated T-coupler and looped-through bus and should therefore be used only as end devices (see also Accessories).

Accessories

RCS-19-10-06	1545358
	Bellows coupling, outer diameter: 19 mm, bore diameter: 10 mm/6 mm

RCS-19-10-08	1545357
	Bellows coupling, outer diameter: 19 mm, bore diameter: 10 mm/8 mm

RCS-19-10-10	1545356
	Bellows coupling, outer diameter: 19 mm, bore diameter: 10 mm/10 mm

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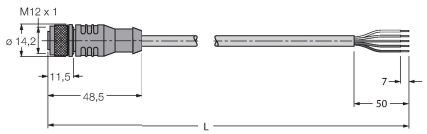
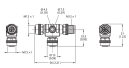
Wiring accessories

Dimension drawing	Type	Ident. no.	
	RKC5701-5M	6931034	Bus cable for CAN (DeviceNet, -CANopen), M12 coupling, straight, cable length: 5m, jacket material: PUR, anthracite; cULus approval; other cable lengths and qualities available, see www.turck.com
	FSM-2FKM57	6622101	CANopen/DeviceNet/power supply T piece, 1 × M12 male, 2 × M12 female, 5-pin

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