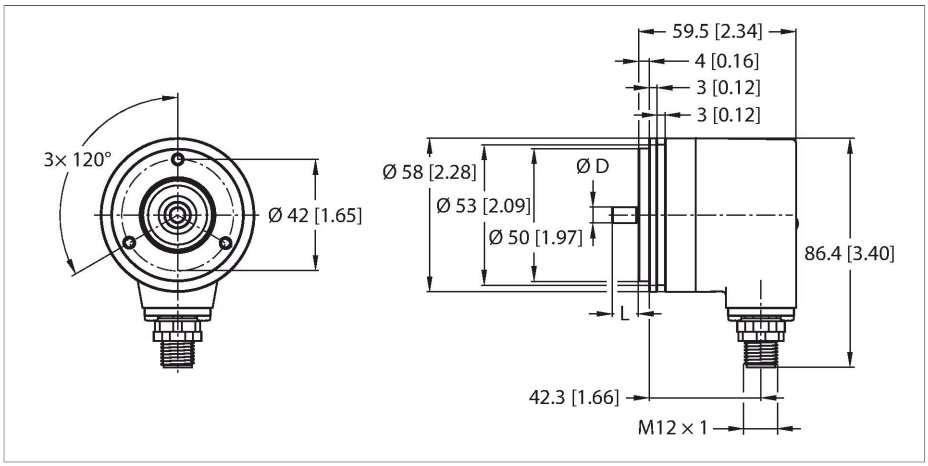
REM-103S10S-5C13S12M-H1181
Absolute Rotary Encoder - Multiturn
Industrial Line



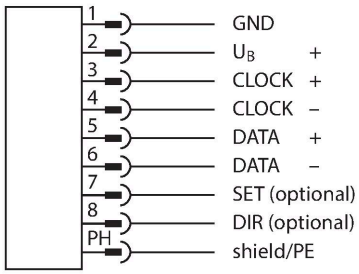
Features

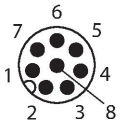
- Synchro flange, Ø 58 mm
- Solid shaft, Ø 10 mm × 20 mm
- Optical measuring principle
- Shaft material: stainless steel
- Protection class IP67 on housing and shaft side
- -40…+85 °C
- Max. 8000 rpm (continuous operation 5000 rpm)
- 10…30 VDC
- SSI, binary
- M12 × 1 male, 8-pin
- Singleturn, 13-bit resolution
- Multiturn, 12-bit resolution

Technical data

Type	REM-103S10S-5C13S12M-H1181
ID	100011388
Measuring principle	Optical
General data	
Max. rotational speed	8000 rpm
Moment of inertia of the rotor	3 × 10^{-6} kgm²
Starting torque	< 0.05 Nm
Absolute accuracy	± 0.015 ° At 25 °C
Output type	Absolute multiturn
Resolution singleturn	13 Bit
Resolution multiturn	12 Bit
Electrical data	
Operating voltage U_B	10…30 VDC
No-load current	≤ 30 mA
Short-circuit protection	yes
Wire break/reverse polarity protection	yes
Communication protocol	SSi
Output function	Binary coded
Mechanical data	
Flange type	Synchro flange
Flange diameter	Ø 58 mm
Shaft Type	Solid shaft
Shaft diameter D (mm)	10
Shaft Length L [mm]	20
Shaft material	Stainless steel
Housing material	Die-cast zinc

Wiring diagram





Technical data

Electrical connection	Connector, M12 × 1
	8-pin
Axial shaft load	40 N
Radial shaft load	80 N
Environmental conditions	
Ambient temperature	-40…+85 °C
Vibration resistance (EN 60068-2-6)	100 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	
	E-RKC 8T-264-2	U-04781	Connection cable, female M12, straight, 8-pin (twisted pairs),shielded, cable length: 2 m, sheath material: PVC, black; cULus approval; other cable lengths and qualities available, see www.turck.com