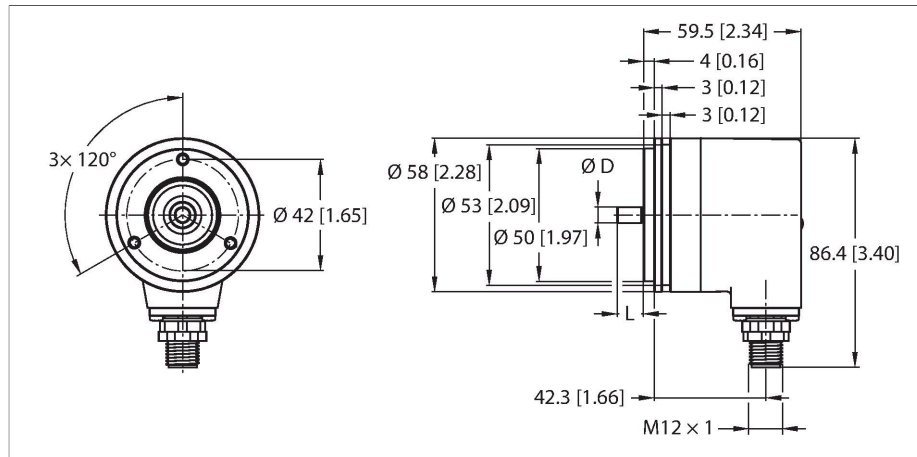


RES-186S10S-3C13B-H1181

Absolute Rotary Encoder - Single-Turn Industrial Line



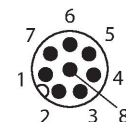
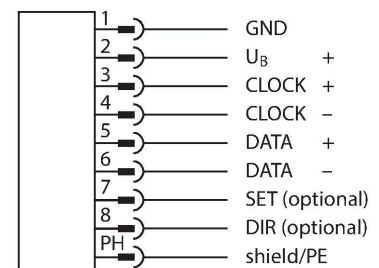
Features

- 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, gray
- M12 × 1 male, 8-pin
- 360° resolved in 13 bit (8192 positions)

Technical data

Type	RES-186S10S-3C13B-H1181
ID	100016318
Measuring principle	Optical
General data	
Max. Rotational Speed	8000 rpm
Starting torque	< 0.03 Nm
Measuring range	0...360 °
Absolute accuracy	± 0.015 ° At 25 °C
Output type	Absolute singleturn
Resolution singleturn	13 Bit
Electrical data	
Operating voltage	10...30 VDC
No-load current	45 mA
Output current	≤ 20 mA
Short-circuit protection	yes
Wire breakage/Reverse polarity protection	yes
Signal level high	typ. 3.8 V
Signal level low	typ. 1.3 V (20 mA load)
Communication protocol	SSi
Output function	Gray coded
Mechanical data	
Design	Solid shaft
Flange type	Synchro flange
Flange diameter	Ø 58 mm
Shaft Type	Solid shaft

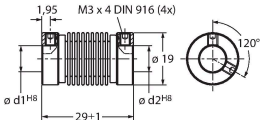
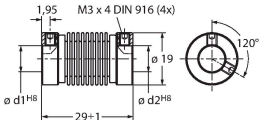
Wiring diagram



Technical data

Shaft diameter D [mm]	10
Shaft Length L [mm]	20
Shaft material	Stainless steel
Housing material	Die-cast zinc
Electrical connection	Connector, M12 × 1
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, 55...2000 Hz
Shock resistance (EN 60068-2-27)	2500 m/s², 6 ms
Protection class	IP67
Protection class shaft	IP67

Accessories

RCS-19-10-06	1545358	RCS-19-10-08	1545357
Bellows coupling, outer diameter: 19 mm, bore diameter: 10 mm/6 mm		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			
