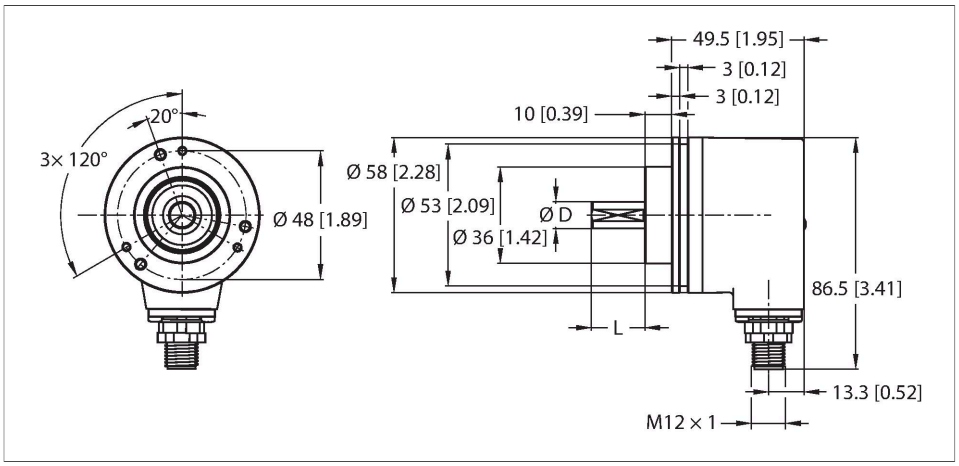
RES-186S10C-3C13B-H1181
Absolute Rotary Encoder - Single-Turn
Industrial Line



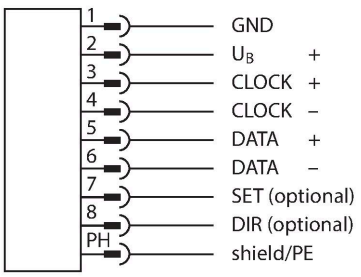
Features

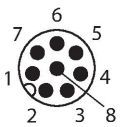
- Clamping flange, Ø 58 mm
- Solid shaft, Ø 10 mm × 20 mm
- Optical measuring principle
- Shaft material: stainless steel
- Protection class IP67 on housing and shaft side
- -40…+85 °C
- Max. 8000 rpm (continuous operation 5000 rpm)
- 10…30 VDC
- SSI, gray
- M12 × 1 male, 8-pin
- 360° resolved in 13 bit (8192 positions)

Technical data

Type	RES-186S10C-3C13B-H1181
Ident. no.	100016315
Measuring principle	Optical
Max. Rotational Speed	8000 rpm
Starting torque	< 0.03 Nm
Measuring range	0…360 °
Absolute accuracy (at 25 °C)	± 0.015 °
Ambient temperature	-40…+85 °C
Operating voltage	10…30 VDC
No-load current	≤ 45 mA
Output current	≤ 20 mA
Short-circuit protection	yes
Wire breakage/Reverse polarity protection	yes
Output type	Absolute singleturn
Resolution singleturn	13 Bit
Signal level high	typ. 3.8 V
Signal level low	typ. 1.3 V (20 mA load)
Communication protocol	SSi
Output function	Gray coded
Design	Solid shaft
Flange type	Clamping flange
Flange diameter	Ø 58 mm
Shaft Type	Solid shaft

Wiring diagram





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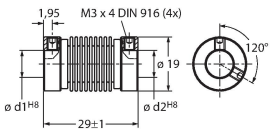
Technical data

Shaft diameter D [mm]	10
Wavelength 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
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

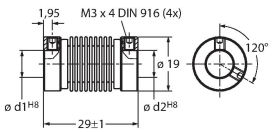
Accessories

RCS-19-10-06 1545358



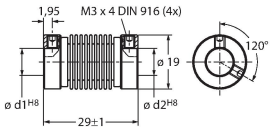
Bellows coupling, outer diameter: 19 mm, bore diameter: 10 mm/6 mm

RCS-19-10-08 1545357



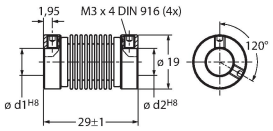
Bellows coupling, outer diameter: 19 mm, bore diameter: 10 mm/8 mm

RCS-19-10-10 1545356



Bellows coupling, outer diameter: 19 mm, bore diameter: 10 mm/10 mm

RCS-19-12-10 1545355



Bellows coupling, outer diameter: 19 mm, bore diameter: 12 mm/10 mm

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