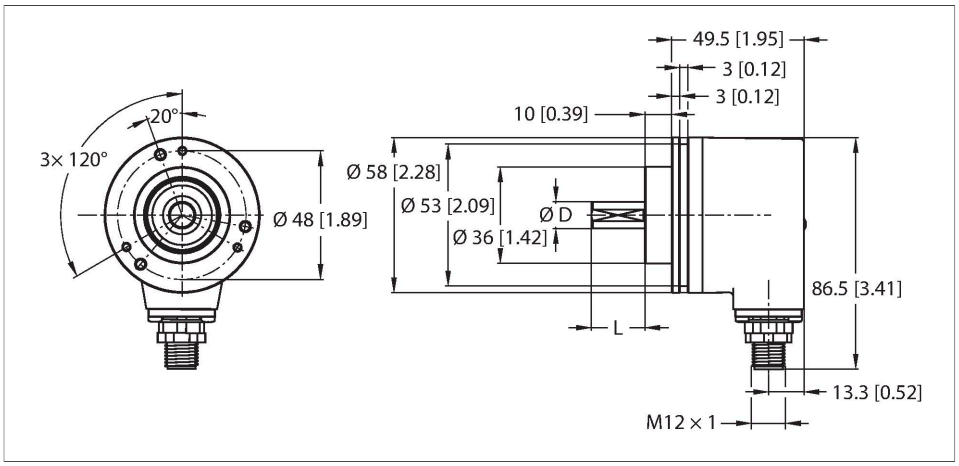
# REM-103S6C-3C13S12M-H1181
# Absolute Rotary Encoder - Multiturn
# Industrial Line



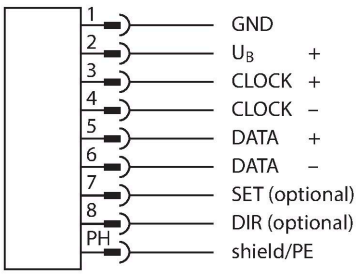

## Features

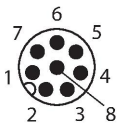
- Ø 58 mm clamping flange
- Solid shaft, Ø 10mm x 20mm
- Optical measuring principle
- Shaft material, stainless steel
- Protection class IP67 on housing and shaft side
- -40…+85 °C
- Max. 8000 rpm (continuous operation 5000 rpm)
- 10-30 VDC
- SSI Gray
- Male connector, M12 x 1, 8-pole
- Singleturn,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

## Technical data

| | |
|---|---|
| Type | REM-103S6C-3C13S12M-H1181 |
| Ident. no. | 100011375 |
| **Measuring principle** | **Optical** |
| Max. Rotational Speed | 8000 rpm |
| Moment of inertia of the rotor | 3 x10$^{-6}$ kgm$^2$ |
| Starting torque | < 0.05 Nm |
| Absolute accuracy (at 25 °C) | ± 0.015 ° |
| Ambient temperature | -40…+85 °C |
| Operating voltage | 10…30 VDC |
| No-load current | ≤ 30 mA |
| Short-circuit protection | yes |
| Wire breakage/Reverse polarity protection | yes |
| Output type | Absolute multiturn |
| Resolution singleturn | 13 Bit |
| Resolution multiturn | 12 Bit |
| Communication protocol | SSi |
| Output function | Gray coded |
| **Design** | **Solid shaft** |
| Flange type | Clamping flange |
| Flange diameter | Ø 58 mm |
| Shaft Type | Solid shaft |
| Shaft diameter D [mm] | 6 |
| Wavelength L [mm] | 10 |

## Wiring diagram




REM-103S6C-3C13S12M-H1181| 09/09/2020 17-58 | technical changes reserved

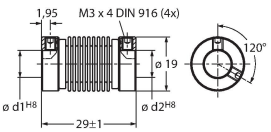
## Technical data

| | |
|---|---|
| Shaft material | Stainless steel |
| Housing material | Die-cast zinc |
| Electrical connection | Connector, M12 × 1 |
| | M12, 8-pole |
| Axial shaft load | 40 N |
| Radial shaft load | 80 N |
| 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 |

Pin configuration

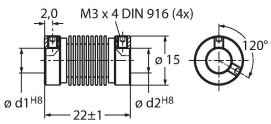
## Accessories

| | |
|---|---|
| RCS-19-10-06 | 1545358 |



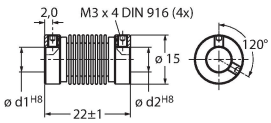

Bellows coupling, outer diameter: 19 mm, bore diameter: 10 mm/6 mm

| | |
|---|---|
| RCS-15-08-06 | 1545361 |



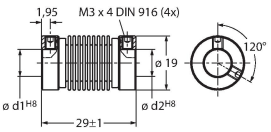

Bellows coupling, outer diameter: 15 mm, bore diameter: 8 mm/6 mm

| | |
|---|---|
| RCS-15-06-06 | 1545362 |




Bellows coupling, outer diameter: 15 mm, bore diameter: 6 mm/6 mm

| | |
|---|---|
| RCS-19-06-06 | 1545360 |




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

## Wiring accessories

| Dimension drawing | Type | Ident. no. | |
|---|---|---|---|
| | 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 |




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