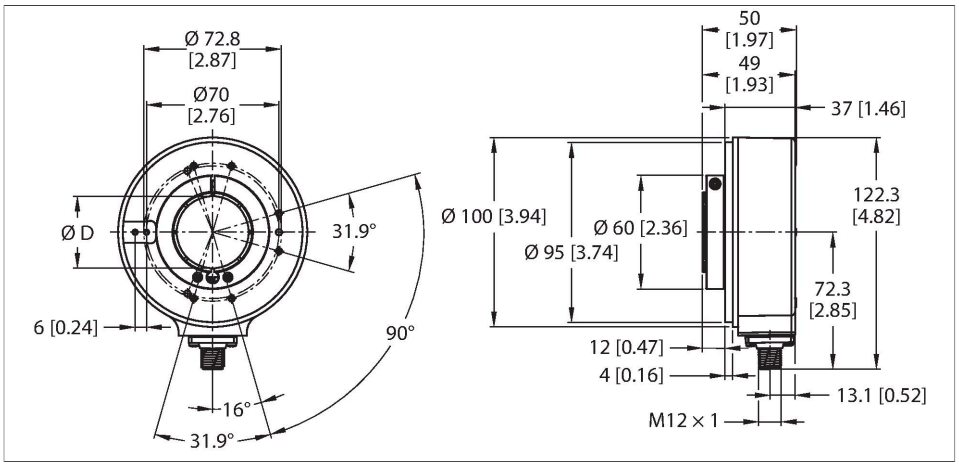
# REI-43H38S-4C1024-H1181
# Incremental Encoder
# Industrial Line



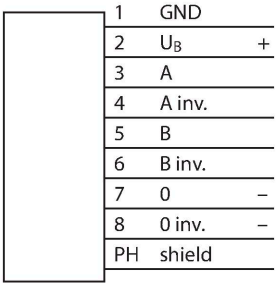

## Features

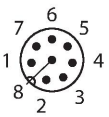
- Flange without mounting element, Ø 100 mm
- Hollow shaft, Ø 38 mm
- Optical measuring principle
- Shaft material: stainless steel
- Protection class IP65 on the shaft side
- -40…+80°C
- max. 6000 rev / min
- 10…30 VDC
- Male connector, M12 x 1 , 8-pole
- RS422 with inverted signals
- Pulse frequency max. 300 kHz
- 1024 pulses per revolution

## Technical data

| | |
|---|---|
| Type | REI-43H38S-4C1024-H1181 |
| Ident. no. | 100011448 |
| Measuring principle | Optical |
| Max. Rotational Speed | 6000 rpm |
| Moment of inertia of the rotor | 220 x$10^{-6}$ kgm$^2$ |
| Starting torque | < 0.2 Nm |
| Ambient temperature | -40…+80 °C |
| Operating voltage | 10…30 VDC |
| No-load current | ≤ 120 mA |
| Output current | ≤ 20 mA |
| Short-circuit protection | yes |
| Output type | Incremental |
| Resolution, incremental | 1024 ppr |
| Pulse frequency max. | 300 kHz |
| Signal level high | min. 2.5 V |
| Signal level low | max. 0.5 V |
| Output function | RS422/TTL, with inverted signals |
| Design | Hollow shaft |
| Flange type | Flange without mounting element |
| Flange diameter | Ø 100 mm |
| Shaft Type | Hollow shaft |
| Shaft diameter D [mm] | 38 |
| Shaft material | Stainless steel |

## Wiring diagram




REI-43H38S-4C1024-H1181| 09/09/2020 14-31 | technical changes reserved

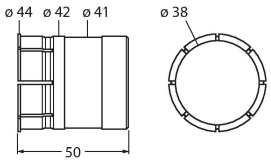
## Technical data

| | |
|---|---|
| Housing material | Die-cast zinc |
| Electrical connection | Connector, M12 × 1 |
| | 8-pin |
| Vibration resistance (EN 60068-2-6) | 10 g (100 m/s²), 10…2000 Hz |
| Shock resistance (EN 60068-2-27) | 200 g (1000 m/s²), 6 ms |
| Protection class | IP65 |
| Protection class shaft | IP65 |

| Signal | Gnd | $+U_B$ | A | A inv. | B | B inv. | 0 | 0 inv. | Shield |
|---|---|---|---|---|---|---|---|---|---|
| Pin configuration | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | PH |

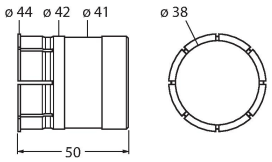
## Accessories

**RSA-7** 1544808



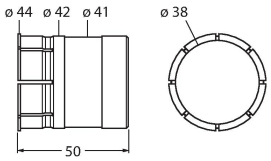

Inlay, outer diameter 38 mm, inner diameter 12 mm

**RSA-10** 1545465



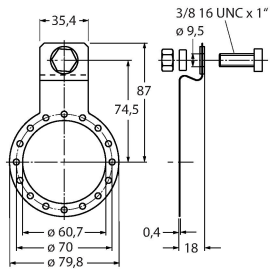

Inlay, outer diameter 38 mm, inner diameter 25 mm

**RSA-11** 1545469



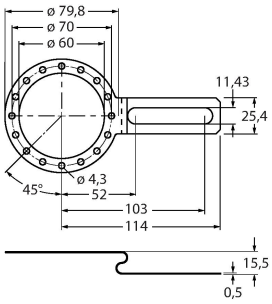

Inlay, outer diameter 38 mm, inner diameter 16 mm

**RME-5** 1544616



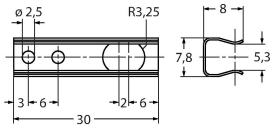

Stainless steel mounting panel for hollow shaft encoders, reference diameter 149 mm, for applications with axial play

**RME-6** 1544617



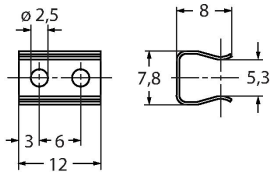

Stainless steel mounting panel for hollow shaft encoders, reference diameter 104…206 mm, for applications with fixing points on adjustable reference diameter

**RME-10** 1544621



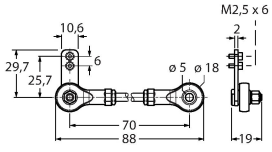

Stainless steel mounting element for hollow shaft encoders, pitch diameter 110 mm, for applications with high axial play

**RME-11** 1544622




Stainless steel mounting element for hollow shaft encoders, pitch diameter 76 mm, for applications with limited mounting space

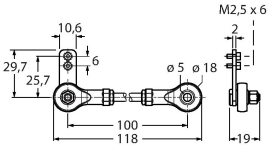
**RME-15** 1544626




Metal arm bracket, for hollow shaft encoders, length 70 mm; for applications with little axial and radial play; flexibly adjustable

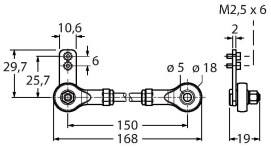
REI-43H38S-4C1024-H1181| 09/09/2020 14-31 | technical changes reserved

| RME-16 | 1544627 |
|---|---|



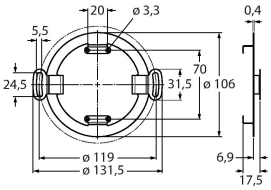

Metal arm bracket, for hollow shaft encoders, length 100 mm; for applications with little axial and radial play; flexibly adjustable

| RME-17 | 1544628 |
|---|---|




Metal arm bracket, for hollow shaft encoders, length 150 mm; for applications with little axial and radial play; flexibly adjustable

| RME-18 | 1544629 |
|---|---|




Stainless steel stator coupling for hollow shaft encoders, reference diameter 119 mm, for highly dynamic applications with axial and radial play

## Wiring accessories

| Dimension drawing | Type | Ident. no. | |
|---|---|---|---|
| | RKC8T-2/TXL | 6625142 | Connection cable, female M12, straight, 8-pin, cable length: 2 m, sheath material: PUR, black; cULus approval; other cable lengths and qualities available, see www.turck.com |




REI-43H38S-4C1024-H1181| 09/09/2020 14-31 | technical changes reserved