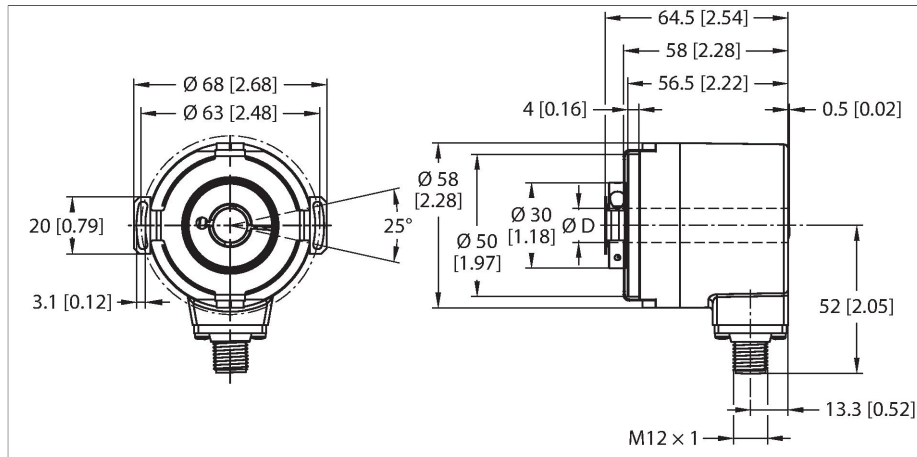


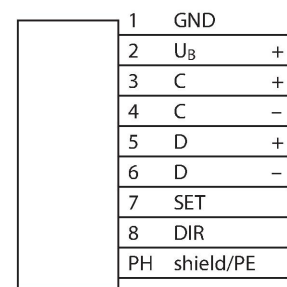
RS-31H12E-3C13B-H1181
Absolute Rotary Encoder - Single-Turn
Industrial Line



Features

- Flange with stator coupling, Ø 63 mm
- Hollow shaft, Ø 12 mm
- Optical measuring principle
- Shaft material: stainless steel
- Protection class IP67 on shaft side
- -40...+70 °C
- Max. 4000 rpm
- 10...30 VDC
- SSI, gray
- M12 × 1 male, 8-pin
- 360° resolved in 13 bit (8192 positions)

Wiring diagram



Technical data

Type	RS-31H12E-3C13B-H1181
Ident. no.	1544424
Measuring principle	Photoelectric
Max. Rotational Speed	4000 rpm
Moment of inertia of the rotor	6 x10 ⁻⁶ kgm ²
Starting torque	< 0.05 Nm
Measuring range	0...360 °
Ambient temperature	-40...+70 °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
Communication protocol	SSi
Output function	Gray coded
Output type	absolute singleturn
Resolution single-turn	13 Bit
Signal level high	typ. 3.8 V
Signal level low	typ. 1.3 V (20 mA load)
Design	Hollow shaft
Flange type	Flange with stator coupling
Flange diameter	Ø 63 mm
Shaft Type	Hollow shaft
Shaft diameter D (mm)	12
Shaft material	Stainless steel
Housing material	Die-cast zinc

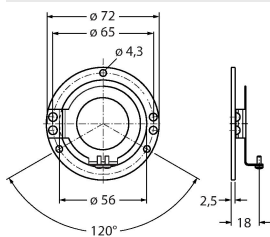
Technical data

Electrical connection	Connectors, M12 × 1
	8-pin
Axial shaft load	40 N
Radial shaft load	80 N
Vibration resistance (EN 60068-2-6)	100 m/s ² , 55 ... 2000 Hz
Shock resistance (EN 60068-2-27)	2500 m/s ² , 6 ms
Protection class housing	IP67
Protection class shaft	IP67

Signal	Gnd	+U _e	C+	C-	D+	D-	SET	DIR	Shield / PE
Pin configuration	1	2	3	4	5	6	7	8	PH

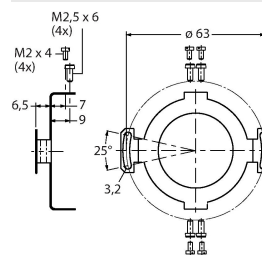
Accessories

RME-1

1544612


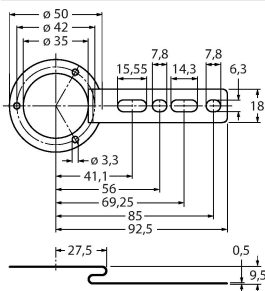
Stainless steel stator coupling for hollow shaft encoders, reference diameter, 65 mm, for highly dynamic, standard applications with axial and radial play

RME-2

1544613


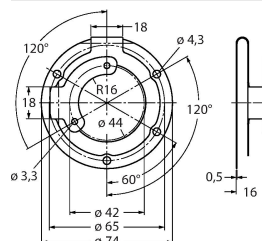
Stainless steel stator coupling for hollow shaft encoders, reference diameter 63 mm, for applications with high demands on accuracy

RME-4

1544615


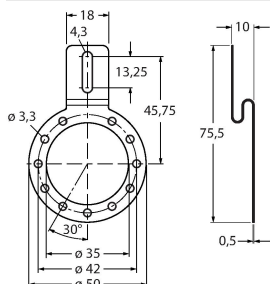
Stainless steel mounting panel for hollow shaft encoders, reference diameter 80...170 mm, for low dynamic applications with axial and radial play

RME-7

1544618


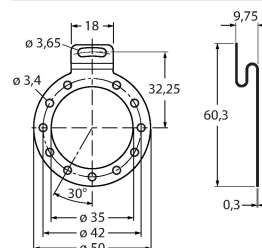
Stainless steel stator coupling for hollow shaft encoders, reference diameter 65 mm, for highly dynamic applications with axial and radial play

RME-8

1544619


Stainless steel mounting panel for hollow shaft encoders, reference diameter 65...91.5 mm, for applications with axial and radial play at constant rotation speed

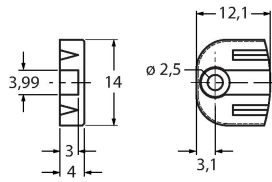
RME-9

1544620


Stainless steel mounting panel for hollow shaft encoders, reference diameter 64.5 mm, for low dynamic applications with axial and radial play

RME-13

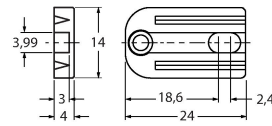
1544624



Plastic mounting element for hollow shaft encoders, pitch diameter 42 mm, for applications with limited axial play, low dynamics and limited mounting space

RME-14

1544625



Plastic mounting element for hollow shaft encoders, pitch diameters 44 mm, 60 mm, 63 mm, 65 mm, for low dynamic applications with high axial play.