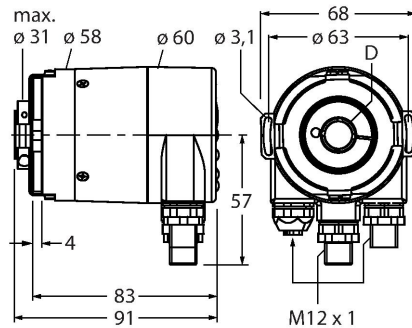


RM-36B12E-9A28B-R3M12

Absolute Rotary Encoder - Multiturn Industrial Line



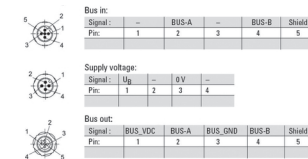
Features

- 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...+80 °C
- Max. 3000 rpm
- Profibus
- Removable bus cover with male, 3 × M12
- Singleturn, resolution scalable to 16 bit (default 13-bit)
- Multiturn resolution max. 12 bit, scalable

Technical data

Type	RM-36B12E-9A28B-R3M12
ID	1544445
Measuring principle	Optical
General data	
Max. rotational speed	3000 rpm
Moment of inertia of the rotor	$7.5 \times 10^{-6} \text{ kgm}^2$
Starting torque	< 0.05 Nm
Output type	Absolute multiturn
Resolution singleturn	16 Bit
Resolution multiturn	12 Bit
	single-turn scalable
Electrical data	
Operating voltage U_B	10...30 VDC
No-load current	≤ 120 mA
Wire break/reverse polarity protection	yes
Communication protocol	PROFIBUS-DP
Mechanical data	
Flange type	Flange with stator coupling
Flange diameter	Ø 63 mm
Shaft Type	Blind hole shaft
Shaft diameter D (mm)	12
Shaft material	Stainless steel
Housing material	Die-cast zinc

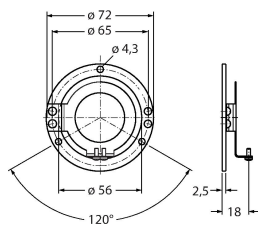
Wiring diagram



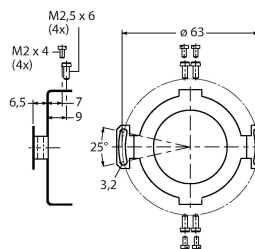
Technical data

Electrical connection	Bus connection
	3 x M12
Axial shaft load	40 N
Radial shaft load	80 N
Environmental conditions	
Ambient temperature	-40...+80 °C
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

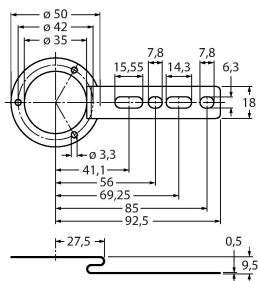
Accessories

RME-1
1544612


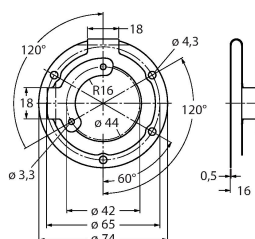
Stainless steel stator coupling for hollow shaft encoders, reference diameter, 65 mm, for highly dynamic, standard applications with axial and radial play

RME-2
1544613


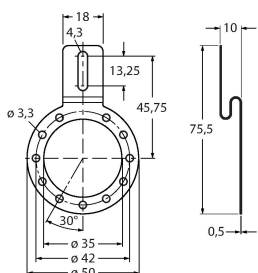
Stainless steel flex mount coupling for hollow shaft encoders, reference diameter 63 mm, for applications with high demands on accuracy

RME-4
1544615


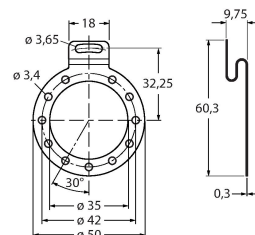
Stainless steel mounting panel for hollow shaft encoders, reference diameter 80...170 mm, for low dynamic applications with axial and radial play

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

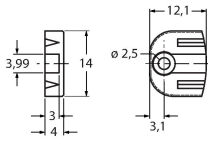
RME-9
1544620


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.

