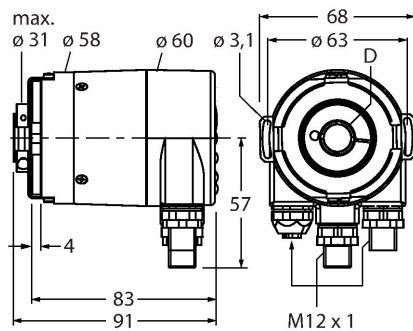


RM-36B12E-9A28B-R3M12

Absolute Rotary Encoder - Multiturn

Industrial Line



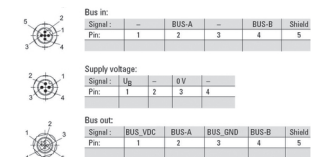
Features

- 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 x M12
- Singleturn, resolution scalable to 16 bit (default 13-bit)
- Multiturn resolution max. 12 bit, scalable

Technical data

Type	RM-36B12E-9A28B-R3M12
Ident. no.	1544445
Measuring principle	Photoelectric
Max. Rotational Speed	3000 rpm
Moment of inertia of the rotor	7.5 x10 ⁻⁶ kgm ²
Starting torque	< 0.05 Nm
Ambient temperature	-40...+80 °C
Operating voltage	10...30 VDC
No-load current	≤ 120 mA
Wire breakage/Reverse polarity protection	yes
Communication protocol	PROFIBUS-DP
Output type	absolute multiturn
Resolution single-turn	16 Bit
Resolution multiturn	12 Bit
	single-turn scalable
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
Electrical connection	Bus connection
	3 x M12
Axial shaft load	40 N
Radial shaft load	80 N

Wiring diagram



Technical data

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	PB_A	PB_B	Shield	BUS_VDC	PB_A	BUS_GND	PB_B	Shield	-
Signal - Pin	BUS in 2	BUS in 4	BUS in 5	BUS out 1	BUS out 2	BUS out 3	BUS out 4	BUS out 5	-
Power	U _B	-	0V	-	-	-	-	-	-
Power- Pin	1	2	3	4	5	-	-	-	-

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.