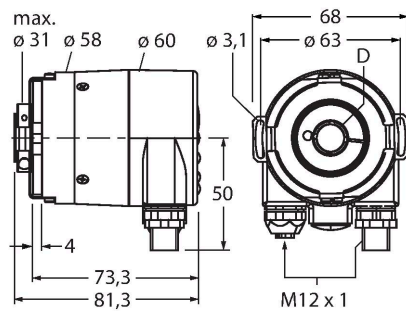


RS-33B12E-9A16B-R3M12

Absolute Rotary Encoder - Single-Turn Industrial Line



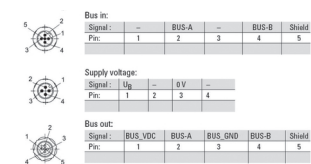
Features

- Flange with stator coupling, Ø 58 mm
- Blind hole hollow shaft, Ø 12 mm
- Minimum plug-in depth, 30 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 connector, 3 x M12
- 360° resolved in 16 bit (65536 positions)
- Scalable, default value 13 bit

Technical data

Type	RS-33B12E-9A16B-R3M12
Ident. no.	1544434
Measuring principle	Photoelectric
Max. Rotational Speed	3000 rpm
Moment of inertia of the rotor	6 x 10 ⁻⁶ kgm ²
Starting torque	< 0.03 Nm
Measuring range	0...360 °
Ambient temperature	-40...+80 °C
Operating voltage	10...30 VDC
No-load current	≤ 110 mA
Wire breakage/Reverse polarity protection	yes
Communication protocol	PROFIBUS-DP
Output type	absolute singleturn
Resolution single-turn	16 Bit
	scalable
Design	Hollow shaft
Flange type	Flange with stator coupling
Flange diameter	Ø 63 mm
Shaft Type	Hollow shaft
Shaft diameter D (mm)	12
	Blind hole hollow shaft, minimum plug-in depth 30mm
Shaft material	Stainless steel
Housing material	Die-cast zinc
Electrical connection	Bus connection
	3 x M12

Wiring diagram

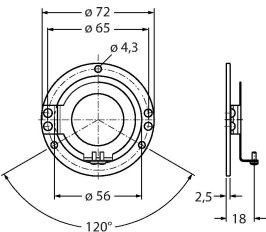
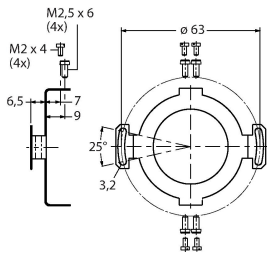
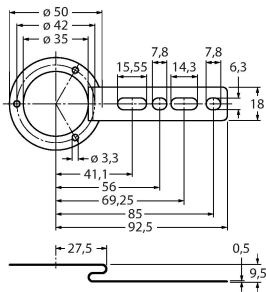
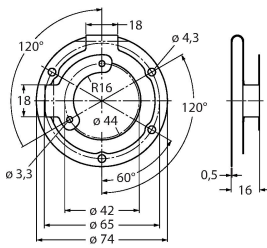
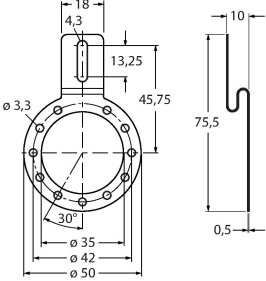
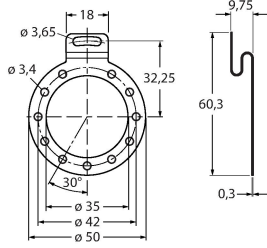
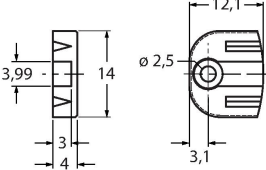
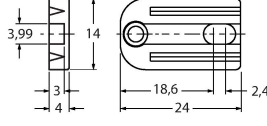


Technical data

Axial shaft load	40 N
Radial shaft load	40 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	BUS-A in	BUS-B in	Shield out	BUS_VDC out	BUS-A out	BUS_GND out	BUS-B out	Shield out	-
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.