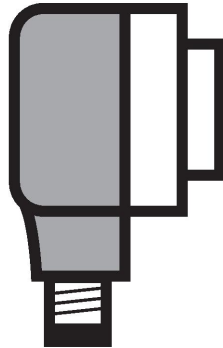


RI-12I12T-2K1000-C1M

Incremental Encoder

Industrial Line



Features

- Incremental Hollow Shaft Encoder
- Protection class IP65 on shaft side
- -40...+85 °C
- Max. 12000 rpm (continuous operation 6000)
- 5...30 VDC
- Cable connection, 8-pole
- Push-pull, with inverted signals
- Pulse frequency max. 300 kHz

Technical data

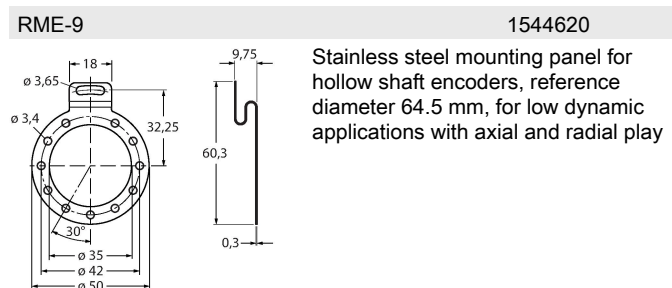
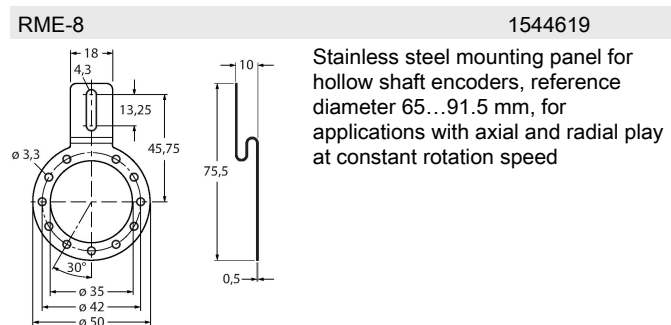
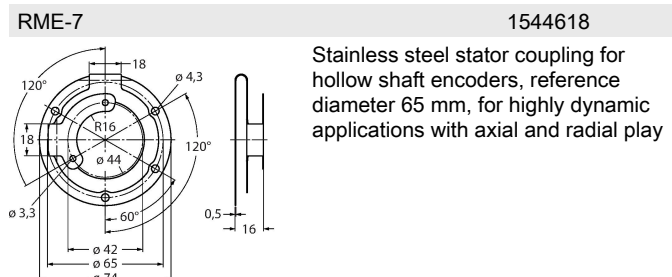
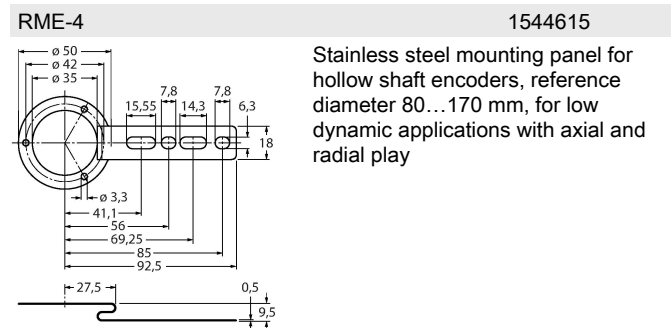
Type	RI-12I12T-2K1000-C1M
ID no.	1545515
Measuring principle	Optical
Max. Rotational Speed	12000 rpm
Moment of inertia of the rotor	$6 \times 10^{-6} \text{ kgm}^2$
Starting torque	< 0.05 Nm
Ambient temperature	-40...+85 °C
Operating voltage	5...30 VDC
No-load current	≤ 100 mA
Output current	≤ 20 mA
Short-circuit protection	yes
Wire breakage/Reverse polarity protection	no
Output type	Incremental
Pulse frequency max.	300 kHz
Signal level high	min. $U_B - 2 \text{ V}$
Signal level low	max. 0.5 V
Output function	Push-Pull 7272, with inverted signals
Design	Hollow shaft
Flange type	Flange with mounting element
Flange diameter	Ø 50.8 mm
Shaft Type	Hollow shaft

Technical data

Shaft diameter D [mm]	12
Shaft material	Stainless steel
Housing material	Die-cast zinc
Electrical connection	Cable
	radial
cable length	1 m
Axial shaft load	40 N
Radial shaft load	80 N
Vibration resistance (EN 60068-2-6)	300 m/s ² , 10...2000 Hz
Shock resistance (EN 60068-2-27)	3000 m/s ² 6 ms
Protection class	IP67
Protection class shaft	IP65

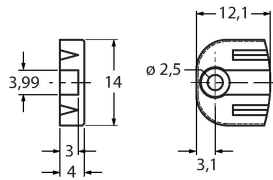
Signal	Gnd	+U _B	A	A inv.	B	B inv.	0	0 inv.	Shield
Core color	WH	BN	GN	YE	GY	PK	BU	RD	Shield
Signal	0V sens	+U _B sens	-	-	-	-	-	-	-
Core color	GY PK	RD BU	-	-	-	-	-	-	-

Accessories



RME-13

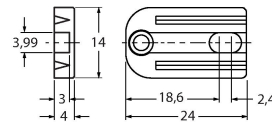
1544624



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.