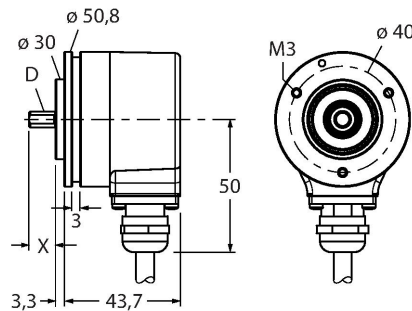


RI-10TA1Z2-4A2048-C1M

Incremental Encoder

Industrial Line



Features

- Servo flange, Ø 50.8mm
- Solid shaft, Ø 3/8" x 5/8"
- Optical measuring principle
- Shaft material, stainless steel
- Protection class IP65 on shaft side
- -40...+85 °C
- Max. 12000 rpm (continuous operation 6000)
- 5 VDC
- Cable connection, 8-pole
- RS422 with inverted signals
- Pulse frequency max. 300 kHz
- 2048 pulses per revolution

Technical data

Type	RI-10TA1Z2-4A2048-C1M
ID	1545430
Measuring principle	Optical
General data	
Max. rotational speed	12,000 rpm
Moment of inertia of the rotor	$1.8 \times 10^{-6} \text{ kgm}^2$
Starting torque	< 0.05 Nm
Output type	Incremental
Resolution, incremental	2048 ppr
Electrical data	
Operating voltage U_B	5 VDC
No-load current	$\leq 90 \text{ mA}$
Output current	$\leq 20 \text{ mA}$
Short-circuit protection	yes
Wire break/reverse polarity protection	no
Pulse frequency max.	300 kHz
Signal level high	min. 2.5 V
Signal level low	max. 0.5 V
Output function	RS422/TTL, with inverted signals
Mechanical data	
Flange type	Synchro flange
Flange diameter	Ø 50.8 mm
Shaft Type	Solid shaft

Wiring diagram

WH	GND
BN	U_B +
GN	A
YE	A inv.
GY	B
PK	B inv.
BU	0
RD	0 inv.

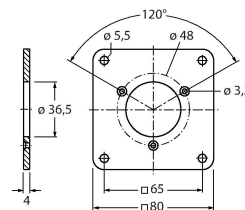
Technical data

Shaft diameter D	0.375 in
Shaft length (L)	0.625 in
Shaft material	Stainless steel
Housing material	Die-cast zinc
Electrical connection	Cable
	radial
cable length	1 m
Axial shaft load	50 N
Radial shaft load	100 N
Environmental conditions	
Ambient temperature	-40...+85 °C
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

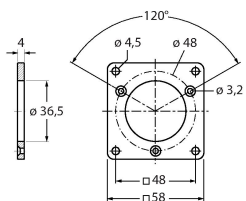
Accessories

RFA-2
1544631

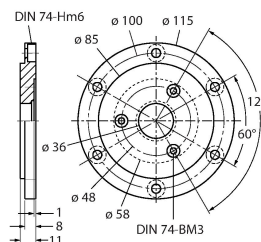

Aluminium flange adapter, rectangular, for solid shaft encoders with clamping flange; edge length 63.5 mm; 3 mm thick

RFA-13
1544642


Aluminium flange adapter, rectangular, for solid shaft encoders with clamping flange; edge length 80 mm; 4 mm thick

RFA-1
1544630


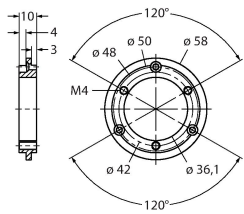
Aluminium flange adapter, rectangular, for solid shaft encoders with clamping flange; edge length 58 mm; 4 mm thick

RFA-4
1544633


Euro flange – aluminium flange adapter for solid shaft encoders, Ø 115 mm; reference diameter 100 mm; adapts 58 mm clamping flange to Euro flange

RFA-6

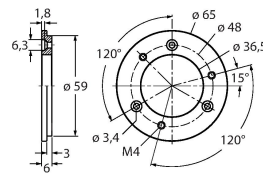
1544635



Aluminium flange adapter for solid shaft encoders with clamping flange, Ø 58 mm; adapts clamping flange to synchro flange

RFA-7

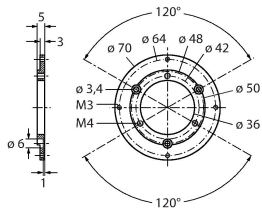
1544636



Aluminium flange adapter for solid shaft encoders, Ø 65 mm; adapts to Ø 65 mm flange and 48 mm reference diameter

RFA-8

1544637



Aluminium flange adapter for solid shaft encoders with clamping flange, Ø 70 mm; thickness 4 mm, adapts to Ø 70 mm flange

RFA-9

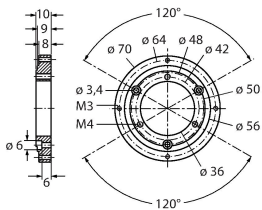
1544638



Aluminium angle flange for solid shaft encoders with Ø 58 mm clamping flange

RFA-11

1544640



Aluminium flange adapter for solid shaft encoders with clamping flange, Ø 70 mm; thickness 10 mm, adapts to Ø 70 mm flange

RFA-12

1544641



Aluminium flange adapter, rectangular, for solid shaft encoders with clamping flange; edge length 70 mm; 10 mm thick