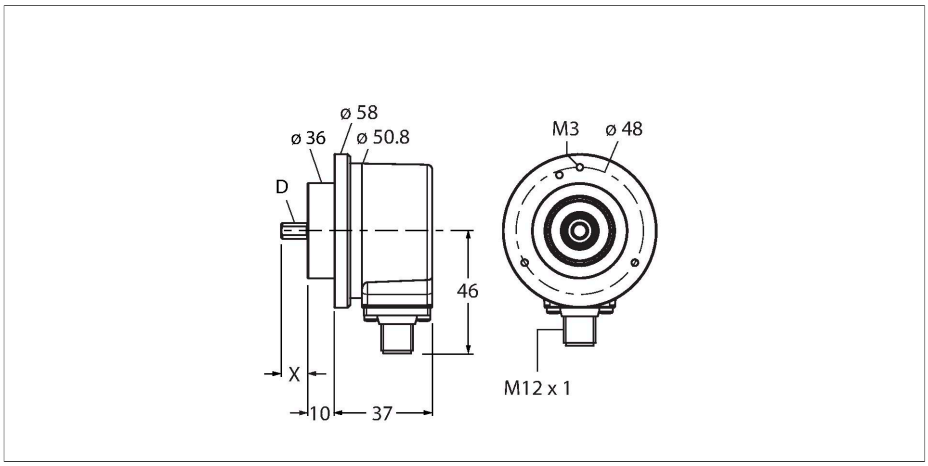
RI-10S6C-2B2048-H1181
Incremental Encoder
Industrial Line



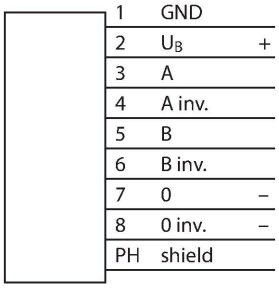
Technical data

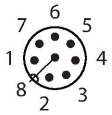
Type	RI-10S6C-2B2048-H1181
Ident. no.	1545201
Measuring principle	Photoelectric
Max. Rotational Speed	6000 rpm
Moment of inertia of the rotor	1.8 x10^{-6} kgm^2
Starting torque	< 0.05 Nm
Ambient temperature	-40…+85 °C
Operating voltage	10…30 VDC
No-load current	≤ 100 mA
Output current	≤ 30 mA
Short-circuit protection	yes
Wire breakage/Reverse polarity protection	yes
Output function	Push-Pull/HTL, invertable
Output type	incremental
Resolution, incremental	2048 ppr
Pulse frequency max.	300 kHz
Signal level high	min. U_B - 1 V
Signal level low	max. 0.5 V
Design	Solid shaft
Flange type	Clamping flange
Flange diameter	Ø 58 mm
Shaft Type	Solid shaft
Shaft diameter D (mm)	6
Shaft length X	10 mm
Shaft material	Stainless steel
Housing material	Die-cast zinc

Features

- Clamping flange, Ø 58 mm
- Solid shaft, Ø 6 mm × 10 mm
- Optical measuring principle
- Shaft material: stainless steel
- Protection class IP67 on housing and shaft side
- -40…+85 °C
- Max. 6000 rpm (continuous operation 3000 rpm)
- 10…30 VDC
- Push-pull/HTL with inversion
- Pulse frequency max. 300 kHz
- M12 × 1 male, 8-pin
- 2048 pulses per revolution

Wiring diagram





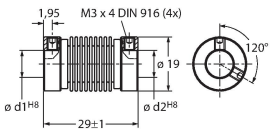
Technical data

Electrical connection	Connectors, M12 × 1
	8-pin
Axial shaft load	50 N
Radial shaft load	100 N
Vibration resistance (EN 60068-2-6)	300 m/s², 10…2000 Hz
Shock resistance (EN 60068-2-27)	3000 m/s² 6 ms
Protection class housing	IP67
Protection class shaft	IP67

Signal	Gnd	$+U_B$	A	A inv.	B	B inv.	0	0 inv.	Shield
Pin configuration	1	2	3	4	5	6	7	8	PH

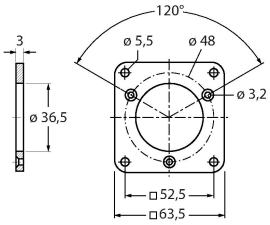
Accessories

RCS-19-10-06 **1545358**



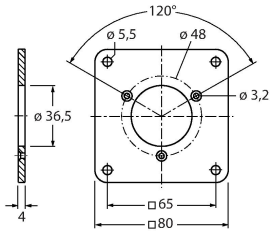
Bellows coupling, outer diameter: 19 mm, bore diameter: 10 mm/6 mm

RFA-2 **1544631**



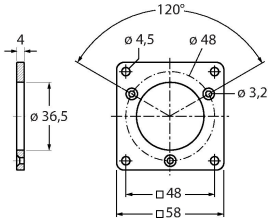
Aluminium flange adapter, rectangular, for solid shaft encoders with clamping flange; edge length 63.5 mm; 3 mm thick

RFA-13 **1544642**



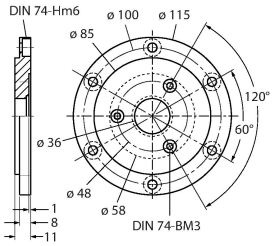
Aluminium flange adapter, rectangular, for solid shaft encoders with clamping flange; edge length 80 mm; 4 mm thick

RFA-1 **1544630**



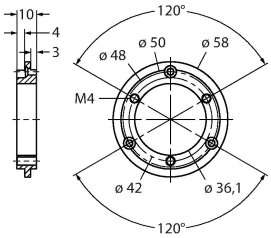
Aluminium flange adapter, rectangular, for solid shaft encoders with clamping flange; edge length 58 mm; 4 mm thick

RFA-4 **1544633**



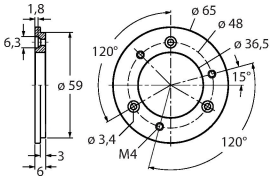
Euro flange – aluminium flange adapter for solid shaft encoders, Ø 115 mm; reference diameter 100 mm; adapts 58 mm clamping flange to Euro flange

RFA-6 **1544635**



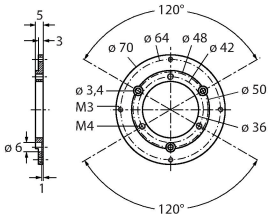
Aluminium flange adapter for solid shaft encoders with clamping flange, Ø 58 mm; adapts clamping flange to synchro flange

RFA-7 **1544636**



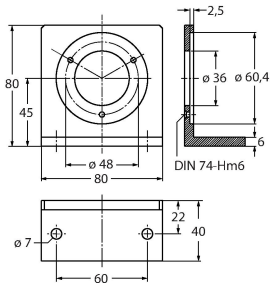
Aluminium flange adapter for solid shaft encoders, Ø 65 mm; adapts to Ø 65 mm flange and 48 mm reference diameter

RFA-8 **1544637**



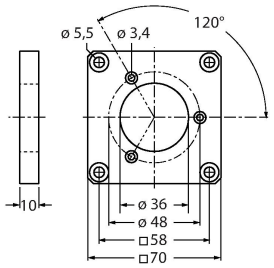
Aluminium flange adapter for solid shaft encoders with clamping flange, Ø 70 mm; thickness 4 mm, adapts to Ø 70 mm flange

RFA-9 1544638



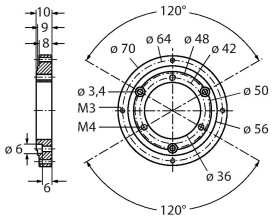
Aluminium angle flange for solid shaft encoders with Ø 58 mm clamping flange

RFA-12 1544641



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

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