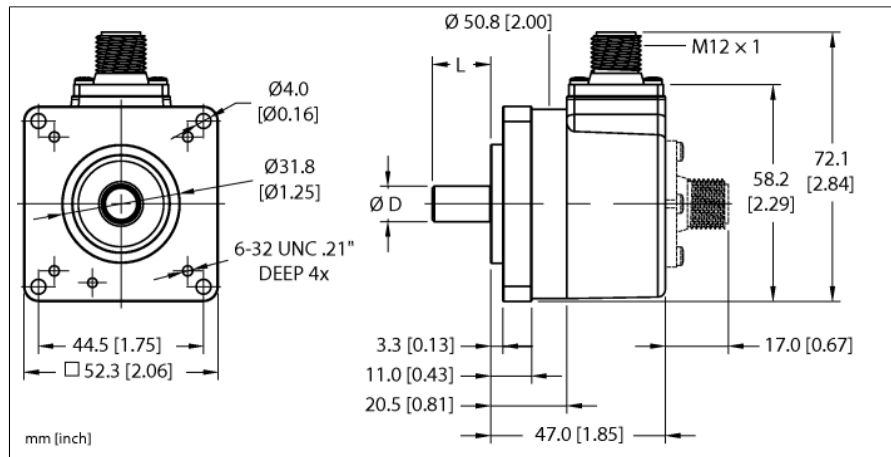


Incremental Shaft Encoder Industrial Line RI-10SA1Z4-2B60-H1181

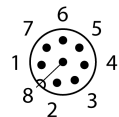


- Square flange, Ø 50,8mm
- Solid shaft, Ø 3/8" x 5/8"
- Optical measuring principle
- Shaft material, stainless steel
- Protection class IP67 on housing and shaft side
- -40...+85 °C
- Max. 6000 rpm (continuous operation 3000 rpm)
- 10...30 VDC
- Male connector, M12 x 1 , 8-pole
- Push-pull, with inverted signals
- Pulse frequency max. 300 kHz
- 60 pulses per revolution

Measuring principle	Optical
Max. Rotational Speed	6000 rpm
Moment of inertia of the rotor	$1.8 \times 10^{-6} \text{ kgm}^2$
Starting torque	0.05 Nm
Ambient temperature	-40...+85 °C
Operating voltage U_s	10...30 VDC
No-load current I_0	$\leq 100 \text{ mA}$
Output current	$\leq 30 \text{ mA}$
Short-circuit protection	yes
Output type	Incremental
Resolution incremental	60 ppr
Pulse frequency max.	300 kHz
Signal level high	min. $U_s - 1 \text{ V}$
Signal level low	max. 0.5 V

Flange type	Rectangular flange
Flange diameter	50.8 mm
Shaft Type	Solid shaft
Shaft diameter D	0.375 in
Shaft length (L)	0.625 in
Shaft material	Stainless steel
Housing material	Die-cast zinc
Electrical connection	Connector, M12 x 1
	8-pin
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	IP67

1	GND
2	U_s +
3	A
4	A inv.
5	B
6	B inv.
7	0
8	0 inv.
PH	shield



Accessories

Type code	Ident-No.		Dimension drawing
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	

Accessories

Type code	Ident-No.		Dimension drawing
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	