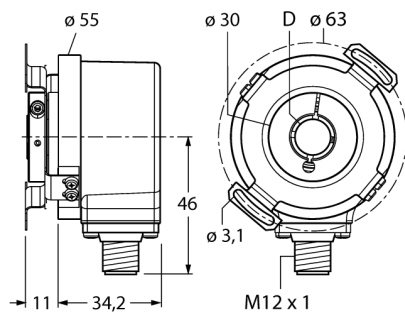


Incremental Encoder Industrial Line RI-12I14E-4B500-H1181

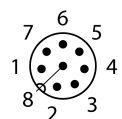


Type	RI-12I14E-4B500-H1181
ID	1545805
Measuring principle	Optical
General data	
Max. rotational speed	12,000 rpm
Moment of inertia of the rotor	$6 \times 10^{-6} \text{ kgm}^2$
Starting torque	$< 0.05 \text{ Nm}$
Output type	Incremental
Resolution incremental	500 ppr
Electrical data	
Operating voltage U_s	5...30 VDC
Output current	$\leq 20 \text{ mA}$
Short-circuit protection	yes
Pulse frequency max.	300 kHz
Signal level high	min. 2.5 V
Signal level low	max. 0.5 V
Mechanical data	
Flange type	Flange with stator coupling
Flange diameter	$\varnothing 63 \text{ mm}$
Shaft Type	Hollow shaft
Shaft diameter D (mm)	14 mm
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

- Flange with slotted flex mount, $\varnothing 63 \text{ mm}$
- Hollow shaft, $\varnothing 14 \text{ mm}$
- Optical measuring principle
- Shaft material: stainless steel
- Protection class IP65 on shaft side
- $-40...+85^\circ\text{C}$
- Max. 12000 rpm (continuous operation 6000)
- 5...30 VDC
- Male connector, M12 x 1, 8-pole
- RS422 with inverted signals
- Pulse frequency max. 300 kHz
- 500 pulses per revolution

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

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



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 housing	IP65
Protection class shaft	IP65