

2) With magnetic ring mounting method 1 or 3 on request.

Bearingless encoders



Incremental, large hollow shaft zero pulse, magnetic	RLI500 (hollow shaft)	Push-pull / RS422
Accessories / Display type 572		Order no.
Position display, 6-digit	with 4 fast switch output: and serial interface with 4 fast switch output: and scalable analog outp	6.572.0116.D05 s and serial interface
Position display, 8-digit	with 4 fast switch output: and serial interface	s 6.572.0118.D05
	with 4 fast switch output and scalable analog outp	

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Technical data

Maximum speed		12000 min ⁻¹	Output circuit		RS422		Pus	Push-pull	
Protection model 1		IP67 acc. to EN 60529	Power supply	Power supply		4.8 26 V DC		4.8 30 V DC	
	model 2	IP68 / IP69k acc. to EN 60529, DIN 40050-9 and humidity tested	Power consumption (no load)		typ. 25 mA max. 60 mA		<i>,</i> ,	typ. 25 mA max. 60 mA	
		acc. to EN 60068-3-38, EN 60068-3-78	Permissible load/channel		120 ohm		+/- 2	+/- 20 mA	
Working temperature		-20°C +80°C [-4°F +176°F]	Min. pulse edg	je interval	1 µs		1 µs		
Shock resistance		5000 m/s ² , 1 ms	Signal level	HIGH	min. 2.	5 V	min	+V - 2.0 V	
Vibration resistance		300 m/s ² , 10 2000 Hz	•.g	LOW	max. 0			. 0.5 V	
Pole gap		5 mm from pole to pole	Reference sign	nal	fixed				
Housing (sensor head)		aluminum	System accuracy typ. 0.3° with sh		3° with sh	haft tolerance g6			
Cable		2 m [6.56'] long, PUR 8 x 0.14 mm ² [AWG 26], shielded, may be used in trailing cable installations	Pulse rate [ppr	-] ¹⁾	2048	3200	4096	6400	
Status LED	green red	pulse index error; speed too high or magnetic fields too weak	m	ax. speed min ⁻¹	7300	4600	3600	2300	
CE compliant acc. to		EMC guideline 2014/30/EU RoHS guideline 2011/65/EU							

Terminal assignment

Output circuit	Type of connection	Cable (isolate unused wires individually before initial start-up)									
1, 2	1 . \	Signal:	0 V	+V	Α	Ā	В	B	0	ō	Ŧ
	1, A	Cable color:	WH	BN	GN	YE	GY	PK	BU	RD	shield ²⁾

Encoder power supply +V DC

+V: 0 V: Encoder power supply ground GND (0 V)

A, Ā: Incremental output channel A / sine signal

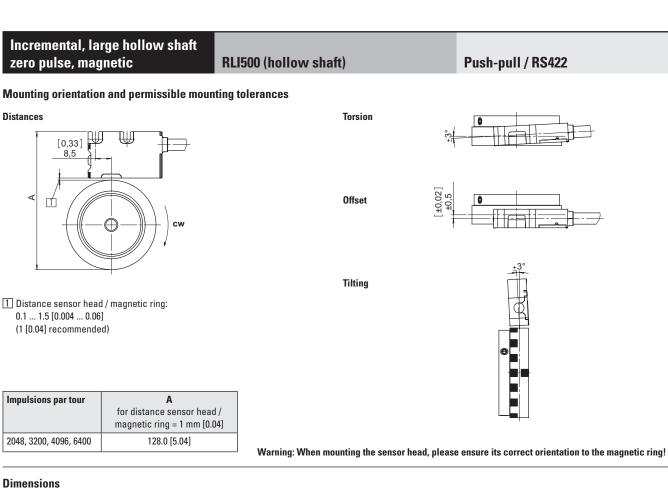
В, <u></u>В: Incremental output channel B / cosine signal

0, 0: Reference signal

÷: Plug connector housing (shield)

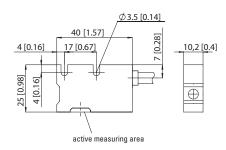
With an input frequency of the evaluation unit of 250 kHz.
Shield is attached to connector housing.

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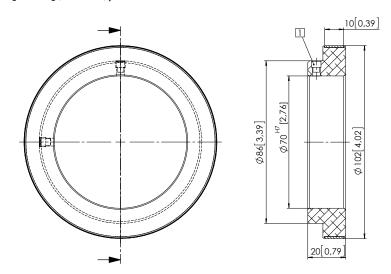


Dimensions in mm [inch]

Sensor head



Magnetic ring (hub screw) pulse rate 2048. 3200, 4096, 6400



1 M5 set screw M4

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