

1) On request.

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 out	ts and serial interface	6.572.0116.D05 6.572.0116.D95
Position display, 8-digit	with 4 fast switch output and serial interface with 4 fast switch output		6.572.0118.D05
	and scalable analog out	put	6.572.0118.D95

Further accessories can be found in the accessories section or in the accessories area of our website at: www.kuebler.com/accessories

Additional connectors can be found in the connection technology section or in the connection technology area of our website at: www.kuebler.com/connection_technology

Technical data

Mechanical characteri	stics		Electrical characteris			
Maximum speed		12000 min ⁻¹	Output circuit			
Protection	model 1	IP67 acc. to EN 60529	Power supply			
	model 2	IP68 / IP69k acc. to EN 60529, DIN 40050-9 and humidity tested acc. to EN 60068-3-38, EN 60068-3-78	Power consumption (no			
Working temperature		-20°C +80°C [-4°F +176°F]	Permissible load/channel			
			Min. pulse edge interval			
Shock resistance		5000 m/s², 1 ms	Signal level HI			
Vibration resistance		300 m/s ² , 10 2000 Hz	L			
Pole gap		5 mm from pole to pole	Reference signal			
Housing (sensor head)		aluminum	System accuracy			
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)			
Status LED	green red	pulse index error; speed too high or magnetic fields too weak	max. speed m			
CE compliant acc. to		EMC guideline 2014/30/EU RoHS guideline 2011/65/EU				

Electrical characteristics								
Output circuit		RS422		Push	Push-pull			
Power supply		4.8 2	6 V DC	4.8	4.8 30 V DC			
Power consumption (no load)		typ. 25 max. 60		<i>,</i> ,	typ. 25 mA max. 60 mA			
Permissible load/channel		120 ohm		+/- 2	+/- 20 mA			
Min. pulse edge interval		1 µs		1 µs	1 µs			
Signal level	HIGH LOW	min. 2.5 V max. 0.5 V			min. +V - 2.0 V max. 0.5 V			
Reference signal		1 x per revolution						
System accuracy		typ. 0.3° with shaft tolerance g6						
Pulse rate [ppr] ¹⁾ max. speed min ⁻¹		2048 7300	3200 4600	4096 3600	6400 2300			

Terminal assignment

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

+V: 0 V: A, Ā: Encoder power supply +V DC

Encoder power supply ground GND (0 V)

Incremental output channel A / sine signal

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

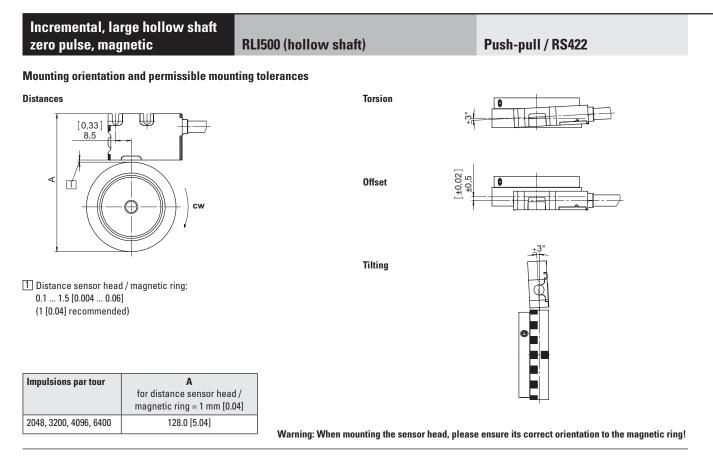
0, 0: Reference signal

±: 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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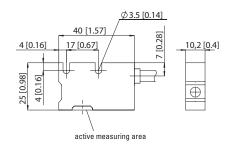




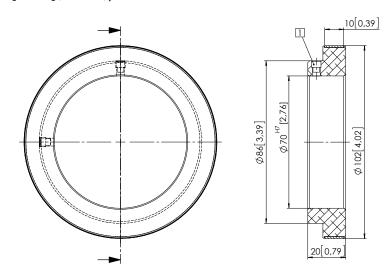
Dimensions

Dimensions in mm [inch]

Sensor head



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



1 M5 set screw M4