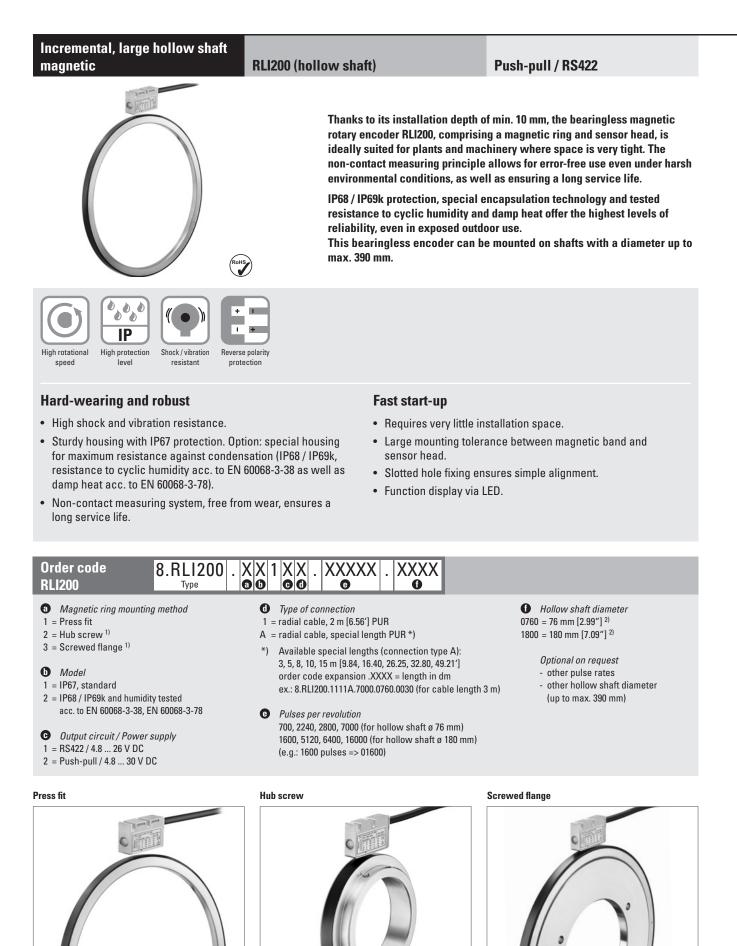
Bearingless encoders





1) On request.

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

Bearingless encoders



Incremental, large hollow shaft magnetic	RLI200 (hollow shaft)	Push-pull / RS422		
Accessories / Display type 572			Order no.	
Position display, 6-digit	with 4 fast switch outputs and serial interface		6.572.0116.D05	
	with 4 fast switch outputs and scalable analog outp		6.572.0116.D95	
Position display, 8-digit	with 4 fast switch outputs and serial interface		6.572.0118.D05	
	with 4 fast switch outputs and scalable analog outp		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 characteristics				
Maximum speed		12000 min ⁻¹		
Protection	Model 1 Model 2	IP67 acc. to EN 60529 IP68 / IP69k acc. to EN 60529, DIN 40050-9 and humidity tested acc. to EN 60068-3-38, EN 60068-3-78		
Working temperature		-20°C +80°C [-4°F +176°F]		
Shock resistance		5000 m/s ² , 1 ms		
Vibration resistance		300 m/s ² , 10 2000 Hz		
Pole gap		2 mm from pole to pole		
Housing (sensor head)		aluminum		
Cable		2 m [6.56'] long, PUR 8 x 0.14 mm ² [AWG 26], shielded, may be used in trailing cable installations		
Status LED	green red	pulse-index error; speed too high or magnetic fields too weak		
CE compliant acc. to		EMC guideline 2014/30/EU RoHS guideline 2011/65/EU		

Electrical characterist	ics						
Output circuit	RS422		Push-pul	Push-pull			
Power supply	4.8 26	VDC	4.8 30 \	4.8 30 VDC			
Power consumption (no loa	d) typ. 25 n max. 60		<i>,</i> ,,	typ. 25 mA max. 60 mA			
Permissible load / channel	120 Ohm	ı	+/- 20 mA	+/- 20 mA			
Min. pulse edge interval	1 µs	1 μs					
Signal level HIG		min. 2.5 V max. 0.5 V		min. +V - 2.0 V max. 0.5 V			
Reference signal	index pe	dex periodical					
System accuracy	typ. 0.3°	typ. 0.3° with shaft tolerance g6					
Pulse rate [ppr] 1)	700	2240	2800	7000			
max. speed min	⁻¹ 12000	6600	5300	2100			
	1600	5120	6400	16000			
max. speed min	⁻¹ 9300	2900	2300	900			

Terminal assignment

Output circuit	Type of connection	Cable (isolate unused wires individually before initial start-up)									
1.0	1 A	Signal:	0 V	+V	Α	Ā	В	B	0	ō	Ŧ
1, 2	I, A	Cable color:	WH	BN	GN	YE	GY	РК	BU	RD	shield ²⁾

+V: Encoder power supply +V DC

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

A, Ā: Incremental output channel A / cosine signal

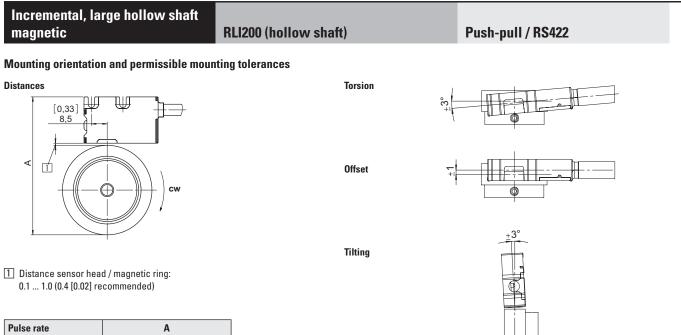
В, <u></u>В: Incremental output channel B / sine signal

0, 0: Reference signal

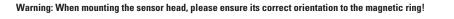
±: Plug connector housing (shield)

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

Bearingless encoders



Pulse rate	A				
	for distance sensor head / magnetic ring = 0.4 mm [0.02]				
700, 2240, 2800, 7000	112.5 [4.43]				
1600, 5120, 6400, 16000	227.7 [8.96]				



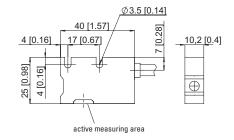
O

Kübler

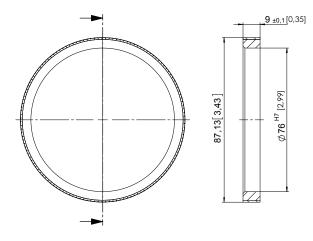
Dimensions

Dimensions in mm [inch]

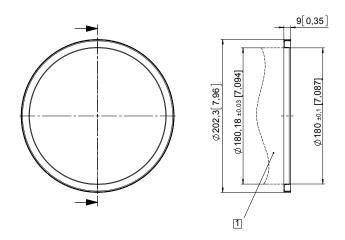
Sensor head



Magnetic ring (press fit) for pulse rate 700, 2240, 2800, 7000



Magnetic ring (press fit) for pulse rate 1600, 5120, 6400, 16000



1 Customer shaft