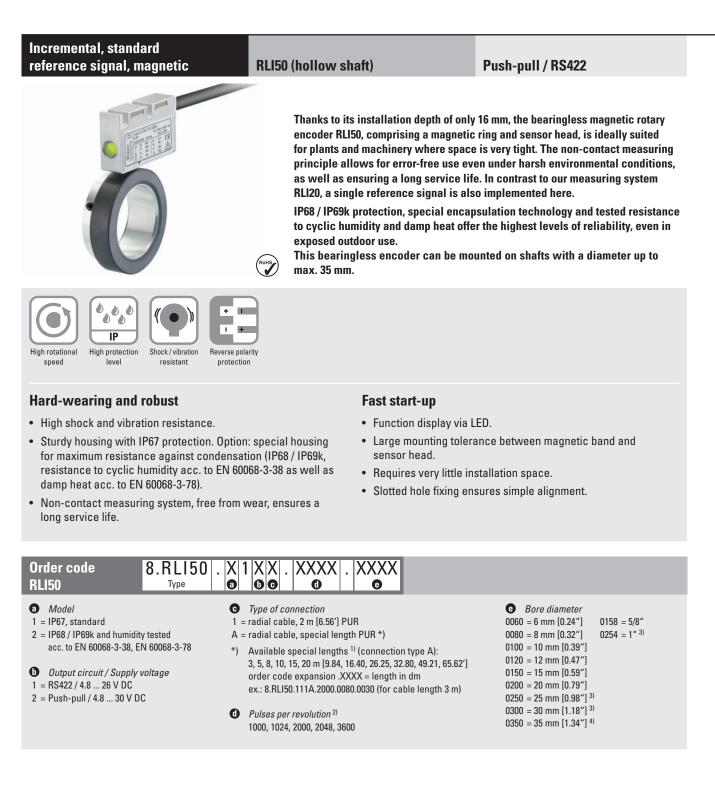
Bearingless encoders





2) Other pulse rates on request.

4) Only possible for pulse rate 3600.

1

¹⁾ Cable lengths >10 m only possible with supply voltage >10 V.

Only possible for pulse rates 1024, 2048 and 3600.

Bearingless encoders



Incremental, standard reference signal, magnetic	RLI50 (hollow shaft)	Push-pull / RS422	
Accessories / Display type 572		0	rder no.
Position display, 6-digit	with 4 fast switc and serial interfa with 4 fast switc and scalable ana	houtputs and serial interface 6.572	2.0116.D05 2.0116.D95
Position display, 8-digit	with 4 fast switc and serial interfa		2.0118.D05
	with 4 fast switc and scalable and	h outputs and serial interface alog output 6.572	2.0118.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			Electrical characteristics						
Maximum speed		12000 min ⁻¹	Output circuit	RS422	RS422		Push-pull		
Protection model 1 IP67 acc. to EN 60529 model 2 IP68 / IP69k acc. to EN 60529, DIN 40050-9 and humidity tested acc. to EN 60068-3-38, EN 60068-3-78		IP67 acc. to EN 60529	Supply voltage	4.8 2	6 V DC	4.8	4.8 30 V DC		
		Power consumption (no load)	typ. 25 max. 6		<i>'</i> .	typ. 25 mA max. 60 mA +/- 20 mA			
A/	Permissible load/channel		120 oh	m	+/- 2				
		-20 °C +80 °C [-4 °F +176 °F]	Min. pulse edge interval	1 µs		1 µs	1 µs		
Shock resistance 5000		5000 m/s ² , 1 ms	Signal level HIGH	min. 2.5 V		min	min. +V - 2.0 V		
libration resist	ance	300 m/s ² , 10 2000 Hz LOW max. 0.5 V			max. 0.5 V				
Pole gap		5 mm from pole to pole	Reference signal	1 x per	revolutio	n			
lousing (senso	arkeed)		typ. 0.3° with shaft tolerance q6						
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⁾	1000	1024	2000	2048	360	
Status LED	green red	pulse index error; speed too high or magnetic fields too weak	max. speed min ⁻¹ without using reference sig.	9000	9000	4000	4000	250	
CE compliant acc. to		EMC guideline 2014/30/EU RoHS guideline 2011/65/EU	max. speed min ⁻¹ using reference signal	3000	2000	3000	2000	170	

Terminal assignment

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

+V: Supply voltage encoder +V DC

0 V: Supply voltage encoder ground GND (0 V)

A, A: Incremental output channel A

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

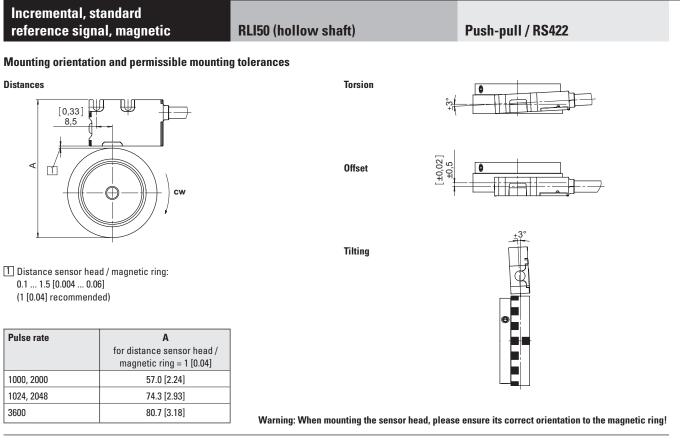
0, 0: Reference signal

±: Plug connector housing (shield)

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



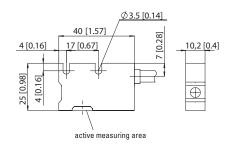
Bearingless encoders



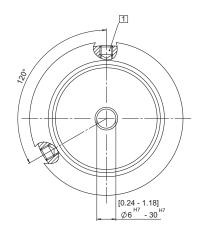
Dimensions

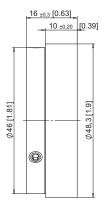
Dimensions in mm [inch]

Sensor head

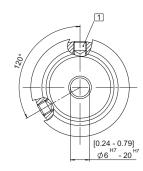


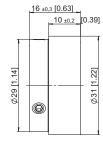
Magnetic ring for pulse rate 1024 or 2048



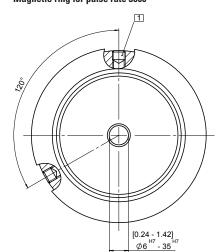


Magnetic ring for pulse rate 1000 or 2000





Magnetic ring for pulse rate 3600





1 M4 set screw