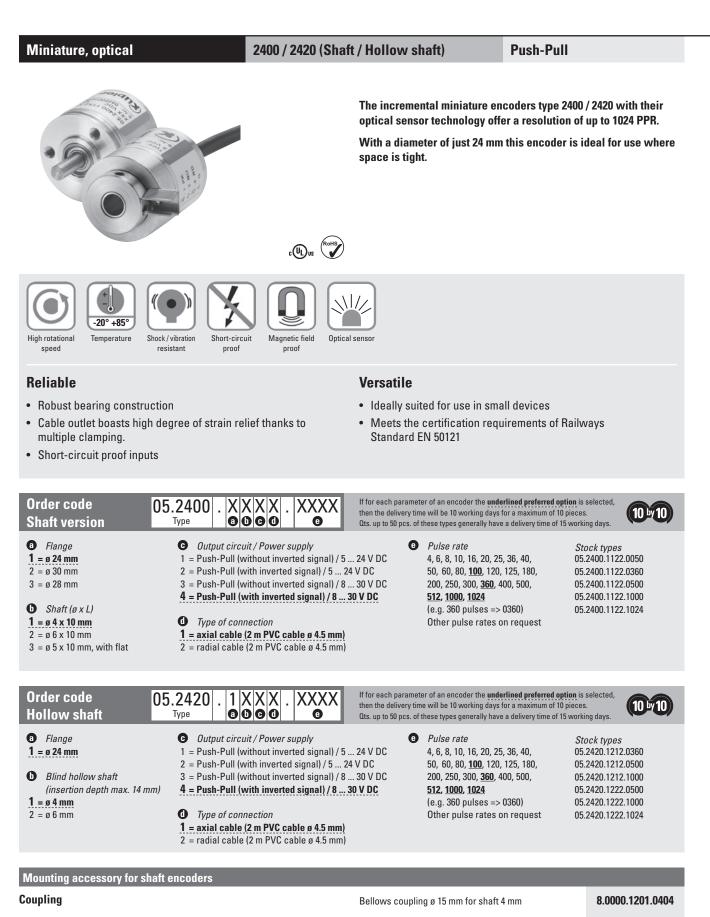
Incremental Encoders





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.

Incremental Encoders



Miniature, optical

2400 / 2420 (Shaft / Hollow shaft)

Push-Pull

Mechanical characteristic	s				
Speed		max. 12 000 min ⁻¹			
Rotor moment of inertia		approx. 0.1 x 10 ⁻⁶ kgm ²			
Starting torque		< 0.01 Nm			
Shaft load capacity radial		10 N			
	axial	20 N			
Weight		approx. 0.06 kg			
Protection to EN 60529	housing side	IP65			
	flange side	IP50 (IP64 on request)			
Working temperature range		-20°C +85°C			
Materials	shaft	stainless steel			
	hollow shaft	brass			
Shock resistance acc. to EN 600	1000 m/s², 6 ms				
Vibration resistance acc. to EN 6	100 m/s ² , 55 2000 Hz				

Electrical characteristics							
Output circuit		Push-Pull (7272) 1)	Push-Pull (7272) 1)				
Supply voltage		5 24 V DC ²⁾	8 30 V DC				
Power consumption (no load)		max. 50 mA	max. 50 mA				
Permissible load / channel		max. 50 mA	max. 50 mA				
Pulse frequency		max. 160 kHz	max. 160 kHz				
Signal level	high	min. U _B - 2.5 V	min. U _B - 3 V				
	low	max. 0.5 V	max. 0.5 V				
Rising edge time t _r		max. 1 µs	max. 1 µs				
Falling edge time t _f		max. 1 µs	max. 1 µs				
Short circuit proof outputs		yes	yes				
UL-certified		File 224618					
CE compliant acc. t	nt acc. to EN 61000-6-2, EN 55011 Class B		11 Class B				
RoHS compliant acc. to		EU guideline 2002/95/EG					

An independent test laboratory (TTI-PG115/96-01) approved by the German Accreditation Council (DAR) certified the compliance with the Railways Standard, according to EN 50121. This means our encoder is compatible with higher electromagnetic noise standards than standard industrial encoders.

You will have a higher quality encoder even in applications with higher EMC noise levels. We will gladly send you a copy of the test report on request. When ordering an encoder to the railway standard, please ensure you state this explicitly on the order.

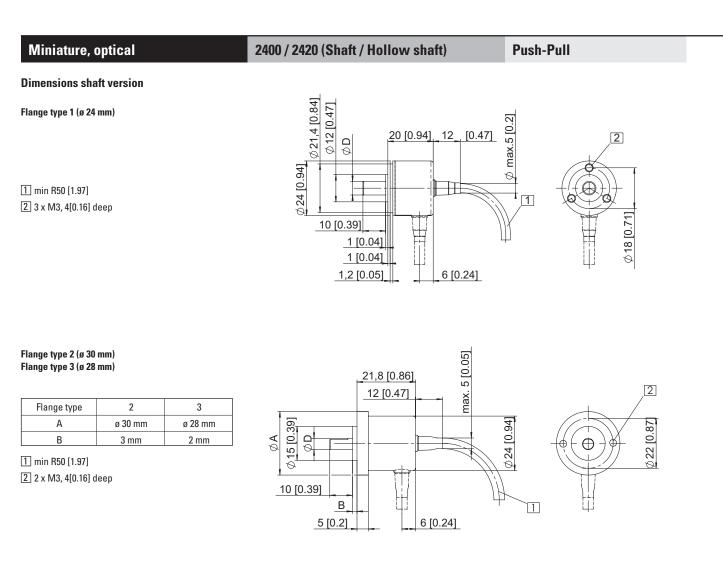


Terminal assignment

Signal	0V	+UB	Α	Ā	В	B	0	Ū
Cable colour with inverted signal	WH	BN	GN	YE	GY	РК	BU	RD
Cable colour without inverted signal	WH	BN	GN		YE		GY	

Max. recommended cable length 30 m
With 24 V DC there is no tolerance above 24 V DC. Please use output circuit 8 ... 30 V DC.

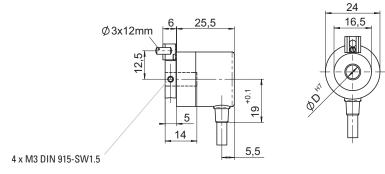
Incremental Encoders



Mounting advice:

The flanges and shafts of the encoder and drive should not both be rigidly coupled together at the same time! We recommend the use of suitable couplings (see Accessories section).

Dimensions hollow shaft version



Mounting advice:

The flanges and shafts of the encoder and drive should not both be rigidly coupled together at the same time! A cylindrical pin, for use as a torque stop, is supplied.



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