Rotary Measuring Technology Incremental encoders



Compact Type 3610 (shaft) / 3620 (hollow shaft)



- Chromated housing resistant to cooling lubricants and other environmental influences
- •• Hollow shaft version: Fits directly onto drive shaft no couplings needed saves up to 30% on cost and 60% on installation space and time
- •• Universal application in mechanical engineering, vehicles, conveyors and elevators
- •• Wide temperature range (-30 ... +90 °C)

- •• Temperature and ageing compensation
- Low current consumption despite high scanning rate
- •• IP 65 from housing side
- •• Sturdy cable entry thanks to multiple clamping
- •• Highly flexible cable (withstands constant flexing at 0 °C ... 70 °C)
- Short circuit proof
- •• Broad input voltage range (5 ... 18 V or 8 ... 30 V)

Mechanical characteristics:

Speed:	Shaft version: max. 12000 min ⁻¹			
	Hollow shaft version: max. 6000 min ⁻¹			
Rotor moment of inertia:	approx. 0.2 x 10 ⁻⁶ kgm ²			
Starting torque:	< 0.05 Nm			
Radial load capacity of the shaft:	40 N			
Axial load capacity of the shaft:	20 N			
Weight:	approx. 0.08 kg			
Protection acc. to EN 60 529:	IP 65, housing side, IP64 shaft side on request			
Working temperature:	−20° C +85 °C ²⁾			
Materials:	Shaft: stainless steel;			
	Hollow shaft: brass			
	Housing: chromated Aluminium			
	Cable: PVC			
Shock resistance acc. to DIN-IEC 68-2-27:	1000 m/s ² , 6 ms			
Vibration resistance acc. to DIN-IEC 68-2-6:	100 m/s ² , 55 2000 Hz			
2)				

²⁾ Non-condensing

Electrical characteristics:

Output circuit:	Push-pull	Push-pull					
output on out.	(7272) ¹⁾	(7272) ¹⁾					
0 1 1	` '	,					
Supply voltage:	5 18 V DC	8 30 V DC					
Power consumption (no load)	< 40 mA	< 40 mA					
with inverted signal:							
Permissible load/channel:	max. ±50 mA	max. ±50 mA					
Pulse frequency:	max. 200 kHz	max. 200 kHz					
Signal level high:	min. U _B - 2.5 V	min. U _B - 3 V					
Signal level low:	max. 0.5 V	max. 0.5 V					
Rise time tr	max. 1 μs	max. 1 µs					
Fall time tf	max. 1 μs	max. 1 µs					
Short circuit proof outputs1):	yes ²⁾	yes ²⁾					
Reverse connection protection at U _B :	yes	yes					
UL certified	File 224618						
Conforms to CE requirements acc. to EN 61000-6-2, EN 61000-6-4 and EN 61000-6-3							
RoHS compliant acc. to EU guideline 2002/95/EG							

¹⁾ Max. recommended cable length 30 m

Terminal assignment

Signal:	0V	+U _B	Α	Ā	В	B	0	Ō	
Colour:	WH	BN	GN	YE	GY	PK	BU	RD	
without inverted signal:	WH	BN	GN		YE		GY		
M12 eurofast, 8 pin	1	2	3	4	5	6	7	8	
connector, Pin									

Isolate unused outputs before initial start-up

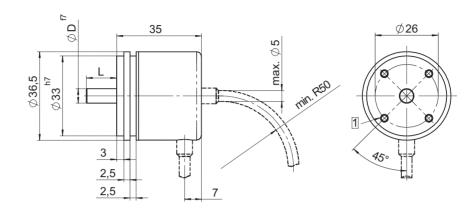
²⁾ If supply voltage correctly applied

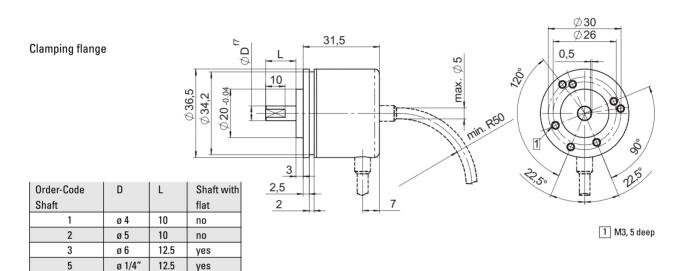
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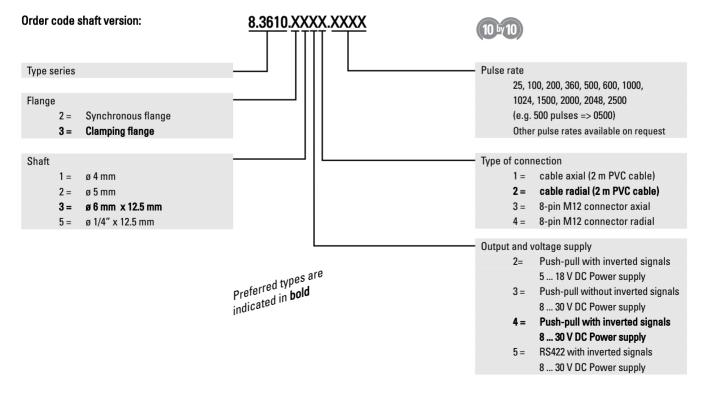


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Dimensions shaft version: Synchronous flange







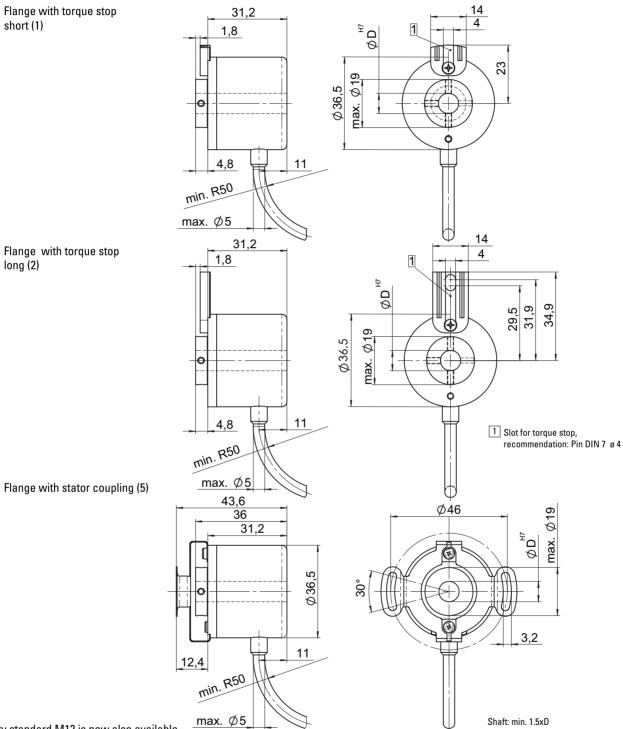
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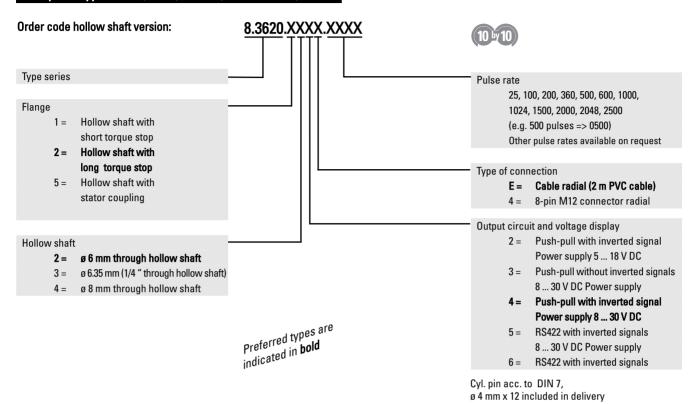
The industry standard M12 is now also available for our compact encoders.

-3 = 8-pin M12 connector radial

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Accessories:

- Cables and connectors, also pre-assembled, can be found in the chapter Counting Technology
- Mounting attachments and couplings can be found in the Chapter Accessories

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