

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) 1 .	

²⁾ Non-condensing

Electrical characteristics:

Output circuit:	Push-pull	Push-pull				
	(7272) ¹⁾	(7272) 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	А	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									

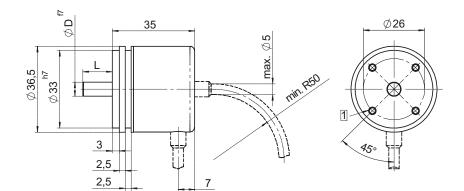
Isolate unused outputs before initial start-up

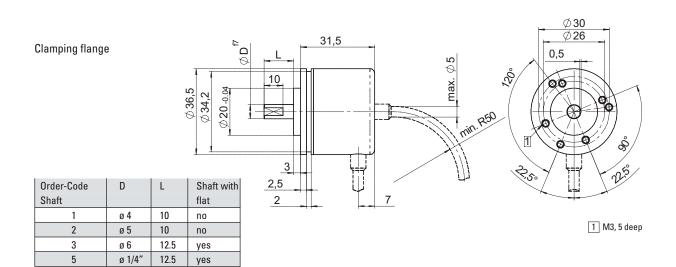
²⁾ If supply voltage correctly applied

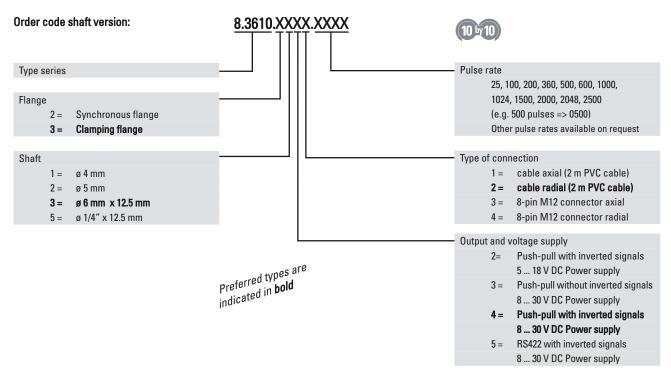


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Dimensions shaft version: Synchronous flange







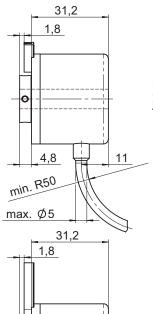
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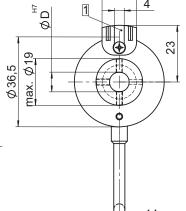


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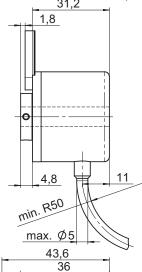


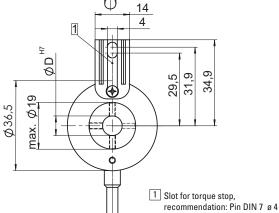
Flange with torque stop short (1)



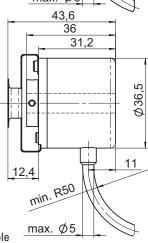


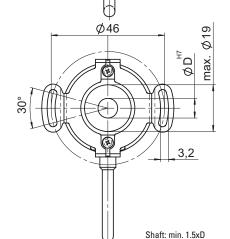
Flange with torque stop long (2)





Flange with stator coupling (5)





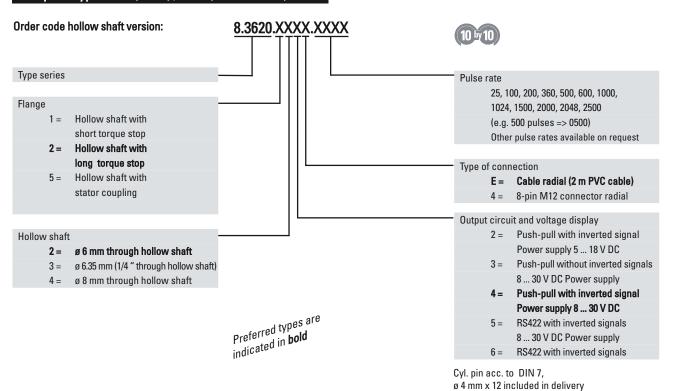
The industry standard M12 is now also available for our compact encoders.

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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