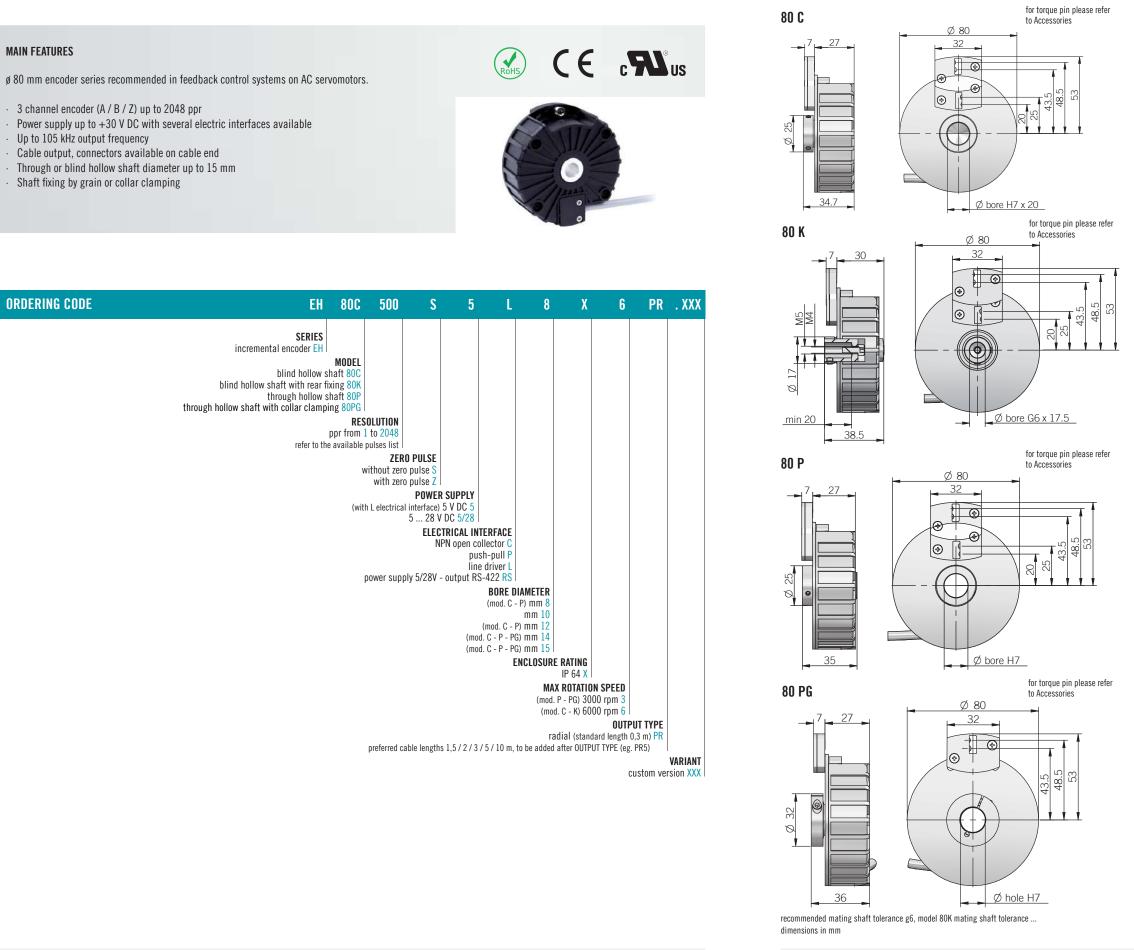


EH 80 C / P / PG / K **BLIND / THROUGH HOLLOW SHAFT INCREMENTAL ENCODER**



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ELECTRICAL SPECIFICA		
Resolution	from 1 to 2048 ppr	
Power supply ¹	$5 = 4,5 \dots 5,5 \text{ V DC}$ $5/28 = 4,5 \dots 30 \text{ V DC}$ (reverse polarity protection)	
Power draw without load	800 mW max	
Max load current	C / P = 50 mA / channel L / RS = 20 mA / channel	
Electrical interface ²	NPN open collector (AEIC-7273, pull-up max +30 V DC) push-pull / line driver HTL (AEIC-7272) line driver RS-422 (AELT-5000 or equivalent)	
Max output frequency	105 kHz	
Counting direction	A leads B clockwise (shaft view)	
Electromagnetic compatibility	according to 2014/30/EU directive	
RoHS	according to 2011/65/EU (01/09/2020) directive	
UL / CSA	certificate n. E212495	
MECHANICAL SPECIFIC	ATIONS	
Bore diameter	ø8/10/12/14/15 mm	
Enclosure rating	IP 64 (IEC 60529)	
Max rotation speed	3000 rpm (mod.P / PG) 6000 rpm (mod.C / K)	
Shock	50 G, 11 ms (IEC 60068-2-27)	
Vibration	20 G, 10 2000 Hz (IEC 60068-2-6)	
Moment of inertia	4 x 10 ⁻⁶ kgm ² (95 x 10 ⁻⁶ lbft ²)	
Starting torque (at +20°C / +68°F)	< 0,04 Nm (5,66 Ozin)	
Bearing stage material	PA66 glass fiber reinforced	
Shaft material	EN-AW 2011 aluminum (mod. C / K) 1.4305 / AISI 303 stainless steel (mod.P / PG)	
Housing material	PA66 glass fiber reinforced	
Bearings	n.2 ball bearings	
Bearings life	10 ⁹ revolutions	
Operating temperature ^{3, 4}	-20° +85 °C (-4° +185°F) -20° +100°C (-4° +212°F) on demand	
Storage temperature ⁴	-25° +85 °C (-13° +185°F)	
Weight	250 g (8,82 oz)	
1 as measured at the transducer without	cable influences	

¹ as measured at the transducer without cable influences

² for further details refer to OUTPUT LEVELS on TECHNICAL BASICS section

³ measured on the transducer flange

⁴ condensation not allowed

CONNECTIONS

Function	Cable C / P	Cable L / RS
+V DC	red	red
0 V	black	black
A+	green	green
A-	/	brown or grey
B+	yellow	yellow
B-	/	orange
Z+	blue	blue
Z-	/	white
÷	shield	shield

RESOLUTIONS

100* - **200** - 250 - 256 - 360 - 400 - **500** - 512 - 600 - **1000** - **1024** - **2000** - **2048**

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*available without zero pulse please directly contact our offices for other pulses, preferred resolutions in bold

