

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

MAIN FEATURES

Ø 80 mm encoder series recommended in feedback control systems on AC servomotors.

- \cdot 3 channel encoder (A / B / Z) up to 2048 ppr
- \cdot Power supply up to +30 V DC with several electric interfaces available
- · Up to 105 kHz output frequency
- · Cable output, connector available on cable end
- · Through or blind hollow shaft diameter up to 15 mm
- · Shaft fixing by grain or collar clamping







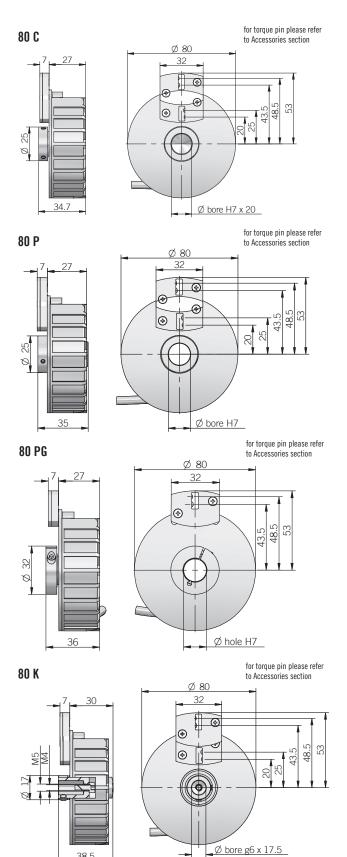




ORDERING CODE	EH80	C	500	S	5	L	8	X	6	PR	. XXX
	SERIES incremental encoder EH80 blind hollow through hollow ough hollow shaft with collar clam blind hollow shaft with rear	MODEL shaft C shaft P ping PG fixing K RES opr from or pulses a	SOLUTION 1 to 2048 availability ZEF vithout zer	O PULSE O pulse S O pulse Z POWEF I interface) 5 28 V ELEC N	R SUPPLY 5 V DC 5 / DC 5/28 CTRICAL IN PN open co pu lin - output R	TERFACE ollector C sh-pull P e driver L S-422 RS BORE I (mod. C (mod. C - d. C - P - P	DIAMETER - P) mm 8 mm 10 P) mm 12 G) mm 14 G) mm 15 ENCLOSURI	E RATING IP 54 X X ROTATIO	IN SPEED	PR	. XXX
								P - PG) 30 d. C - K) 60	00 rpm 6		
			preferred o	able length	s 1.5 / 2 / 3	/5/10 m.	ra to be added		dard length		
					. ,			••••			VARIANT sion XXX







ELECTRICAL SPECIFICATIONS				
Resolution	Resolution from 1 to 2048 ppr			
Power supply	$5 = 4.5 \dots 5.5 \text{ V DC}$ $5/28 = 4.5 \dots 30 \text{ V DC}$ (reverse polarity protection)			
Power draw without load	800 mW max			
Max load current	20 mA / channel			
Output type*	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 directive			
UL / CSA	certificate n. E212495			

* for further details	A LITERIA GOS OSCOLO	VELS under TECHNICAL	RASICS section
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MECHANICAL SPECIFICATIONS				
Bore diameter	ø8/10/12/14/15 mm			
Enclosure rating	IP 54 (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	rial PA66 glass fiber reinforced			
Bearings	2 ball bearings			
Bearings life	10 ⁹ revolutions			
Operating temperature	-20° +85 °C (-4° +185°F) -20° +100°C (-4° +212°F) on demand			
Storage temperature	-25° +85 °C (-13° +185°F)			
Fixing torque for grub screws				
Fixing torque for collar clamping				
Weight	9ht 250 g (8,82 oz)			

CONNECTIONS		
Function	Cable C / P	Cable L / RS
+V DC	red	red
0 V	black	black
Ch. A	green	green
Ch. A-	/	brown
Ch. B	yellow	yellow
Ch. B-	/	orange
Ch. Z	blue	blue
Ch. Z-	/	white
<u></u>	shield	shield

RESOLUTIONS

1 - 2 - 4 - 5 - 10 - **25** - 30 - 50 - 60 - 100* - **200** - 250 - 256 - 360 - 400 - **500** - 512 - 600 - **1000** - **1024 - 2000 - 2048**



dimensions in mm

38.5

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