

EH 88 PE / PET

THROUGH HOLLOW SHAFT INCREMENTAL ENCODER

MAIN FEATURES

Cost effective encoder for asynchronous motors, suitable for elevators and stage machinery.

- · 3 channel encoder (A / B / Z) up to 2500 ppr
- · Power supply up to +28 V DC with several electrical interfaces available
- · Up to 105 kHz output frequency
- · Cable output, connector available on cable end
- · Sturdy mechanic
- · Up to 40 mm bore diameter
- · Shaft fixing by collar clamping







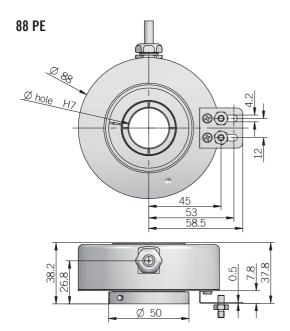


ORDERING CODE	EH	88PE	1024	S	5/28	P	30	X	3	PR	. XXX
incremental en through hollow shaft v through hollow shaft fo	SERIES coder series EH with torque stop r torque arm fixi to Accessories for t	MODEL slot 88PE ng 88PET torque arm RES or from 500 e available W	GOLUTION O to 2500 pulses list ZER vithout zer with zer	to PULSE o pulse S o pulse Z POWER il interface) 5 28 V	SUPPLY 5 V DC 5 DC 5/28 TRICAL IN PU lin	TERFACE sh-pull P e driver L S-422 RS		X	3	PR	. XXX
			preferred c	able length:	s 1,5/2/3	(mod. Pl (mod. Pl (mod. Pl E	radial c	IP 54 X X Rotatio	00 rpm 3 OUTP ard length 0		

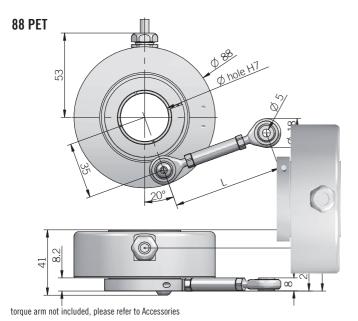
VARIANT custom version XXX



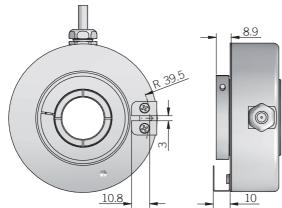




for torque pin please refer to Accessories



OPTIONAL TORQUE STOP SLOT



for torque stop slot and torque pin please refer to Accessories



ELECTRICAL SPECIFICATIONS					
Resolution	from 500 to 2500 ppr				
Power supply ¹	$5=4,5\dots5,5$ V DC $5/28=4,5\dots30$ V DC (reverse polarity protection)				
Power draw without load 800 mW					
Max load current	20 mA / channel				
Electrical interface ²	push-pull / line driver HTL (AEIC-7272) line driver RS-422 (AELT-5000 or equivalent)				
Max output frequency	105 kHz				
 Counting direction 	Counting direction A leads B clockwise (shaft view)				

according to 2014/30/EU directive

RoHS | according to 2015/863/EU directive

UL / CSA certificate n. E212495

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Electromagnetic compatibility

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,	Bore diameter	ø 25 / 30 / 35 / 38 / 40 mm				
	Enclosure rating	IP 54 (IEC 60529)				
	Max rotation speed	3000 rpm				
	Shock	50 G, 11 ms (IEC 60068-2-27)				
	Vibration	10 G, 10 2000 Hz (IEC 60068-2-6) 45 x 10 ⁻⁶ kgm ² (10,68 x 10 ⁻⁴ lbft ²)				
	Moment of inertia					
	Starting torque (at +20°C / +68°F)	< 0,02 Nm (2,83 Ozin)				
Bearing stage material		EN-AW 2011 aluminum				
	Shaft material	up to ø 38 mm: EN-AW 2011 aluminum ø 40 mm: 1.4305/AISI 303 stainless steel				
Housing material		EN-AW 2011 aluminum				
	Bearings	n.2 ball bearings				
	Bearings life	10 ⁹ revolutions				
	Operating temperature ^{3, 4}	-30° +85°C (-22° +185°F)				
	Storage temperature	-30° +85°C (-22° +185°F)				
	Weight	350 g (12,35 oz)				
	log managed at the transducer without eable influence					

¹ as measured at the transducer without cable influences

RESOLUTIONS

500 - 512 - 720 - **1000** - **1024** - 1440 - 2500

please directly contact our offices for other pulses, preferred resolutions in bold

CONNECTIONS						
Function		Cable P	Cable L/RS			
+V DC		red	red			
0,V	1	black	black			
Á+	})	green	green			
→ A-	1	/ /	brown or grey			
B+	1	yellow	yellow			
B-		1	orange			
Z+		blue	blue			
Z-		/	white			
+		shield	shield			

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

³ measured on the transducer flange ⁴ condensation not allowed