



MAIN FEATURES

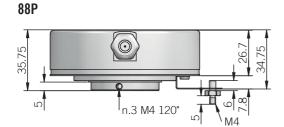
Ø 88 mm through hollow shaft encoder designed for middle size asyncronous motors.

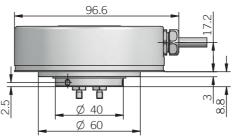
- · 3 channel encoder (A / B / Z) up to 2500 ppr
- Power supply up to +28 V DC with several electrical interfaces available
- · Up to 105 kHz output frequency
- · Cable output, connectors available on cable end
- Sturdy mechanic
- 25 or 30 mm bore diameter, others on request
- · Shaft fixing with grub screws

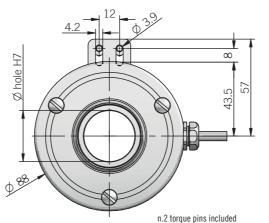




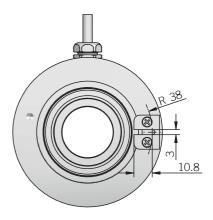
ORDERING CODE	EH 88P	1024	S	5/28	Р	30	S	3	PR	. XXX
incre incre	SERIES mental encoder series EH mental encoder series EL MODEL low shaft with torque stop slot 88P (mod. EH) max (mod. EL) may refer to the available	SOLUTION ppr 2500 a ppr 2048 pulses list ZEF without zer	RO PULSE O pulse S O pulse Z POWER al interface) 5 28 V ELEC	SUPPLY 5 V DC 5 DC 5/28 TRICAL IN PN open c	TERFACE	30	5	3	PR	. XXX
	роч	ver supply 5	5/28 V DC -	·	SHAFT D	NCLOSURE	IP 65 S X rotatio	N SPEED 00 rpm 3		
		preferred c	able lengths	s 1,5 / 2 / 3	/5/10 m,		able (stand	OUTF lard length UT TYPE (eg	. PR5)	VARIANT sion XXX







OPTIONAL TORQUE STOP SLOT





for torque stop slot and torque pin please refer to Accessories

recommended mating shaft tolerance g6 dimensions in mm

ELECTRI	CAL S	PECIFI	CATIONS

LLLUTRICAL SI LUIT IDATIONS				
Resolution	from 250 to 2500 ppr EH series from 2 to 2048 ppr EL series			
Power supply ¹	$5 = 4,5 \dots 5,5$ V DC $5/28 = 4,5 \dots 30$ V DC (reverse polarity protection)			
Current consumption without load				
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 or similar) line driver RS-422 (AELT-5000 or similar)			
Max output frequency	105 kHz			
Index signal	90°e (gated A&B) EH series 180°e (gated A) EL series			
Counting direction	A leads B clockwise (shaft view)			
Mean time to dangerous failure (MTTF _d) ³ according to EN ISO 13849-1	331 years El series			
Mission time (Tm) ³	20 years			
Diagnostic coverage (DC) ³	0%			
Cable type	shielded - fixed installation conductors section 0,22 mm²/AWG 24 bending radius min 60 mm			
Electromagnetic compatibility	according to 2014/30/EU directive			
RoHS	according to 2011/65/EU directive			
UL / CSA	A file n. E212495			

EH SERIES RESOLUTIONS

250 - 256 - 500 - **512** - 700 - 720 - **1000** - **1024** - 1440 - 2500

EL SERIES RESOLUTIONS

2 - 5 - 100 - 200 - **360** - 400 - **2000** - 2048

please directly contact our offices for other pulses, preferred resolutions in bold $% \left(1\right) =\left(1\right) \left(1$

MECHANICAL SPECIFICATIONS

MILGHANIGAL SI LUH IGATIONS				
ø 25 / 30 mm				
IP 65 (IEC 60529)				
3000 rpm				
50 G, 11 ms (IEC 60068-2-27) EL series 70 G, 11 ms (IEC 60068-2-27) EH series				
20 G, 10 2000 Hz (IEC 60068-2-6) EL series 30 G, 10 2000 Hz (IEC 60068-2-6) EH series				
45 x 10 ⁻⁶ kgm ² (10,68 x 10 ⁻⁴ lbft ²)				
< 0,1 Nm (14,16 Ozin)				
aluminum				
stainless steel				
aluminum				
n.2 ball bearings				
10 ⁹ revolutions				
-10° +70°C (+14° +158°F)				
-25° +85°C (-13° +185°F)				
1 350 g (12,35 oz)				

as measured at the transducer without cable influences

CONNECTIONS

CONNECTIONS	I		
Function	Cable C / P	Cable L/RS	
+V DC	red	red	
0 V	black	black	
A+	green	green	
A-	1	brown or grey	
B+	yellow	yellow	
B-	1	orange	
Z+	blue	blue	
Z-	/	white	
_	shield	shield	





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

 $^{^{\}rm 3}$ this product is not a safety component, for further details refer to TECHNICAL BASICS section

 $^{^{\}rm 4}$ measured on the transducer flange

⁵ condensation not allowed