

EH 38 A / B / D **SOLID SHAFT INCREMENTAL ENCODER**

MAIN FEATURES

Miniaturized ø 38 mm encoder series for application in small devices. Recommended when a minimal size is required even providing excellent performances.

- 3 channel encoder (A / B / Z) up to 1024 ppr
- Power supply up to +30 V DC with several electrical interfaces available
- Up to 105 kHz output frequency
- Cable output, connectors available on cable end
- Solid shaft diameter up to 6 mm
- Mounting by clamping or centering square flange







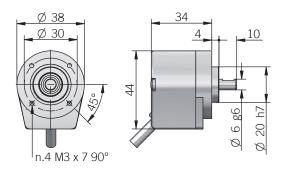




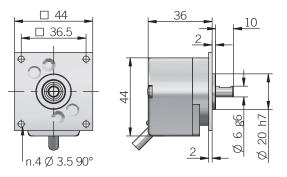
ORDERING CODE	EH 38A	500	S	5/28	Р	6	X	3	PR	. XXX
clar squa	ppr from 5 refer to the available	SOLUTION 0 to 1024 pulses list ZEF without zer	o pulse Z POWER 5 28 V ELEC	TRICAL IN PN open c	- 1					
		power sup	ply 5/28V -	lin	e driver L S-422 RS					
					SHAFT DI	mm 6 NCLOSURE	IP 54 X (Rotatio i	00 rpm 3	UT TYPE	
		preferred o	able lengths	s 1,5 / 2 / 3	/ 5 / 10 m, to	radial ca o be added	able (standa after OUTPU	ard length (),5 m) PR	

VARIANT custom version XXX

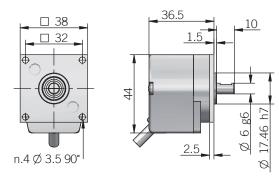
38 A



38 B



38 D



recommended mating shaft tolerance H7 dimensions in mm

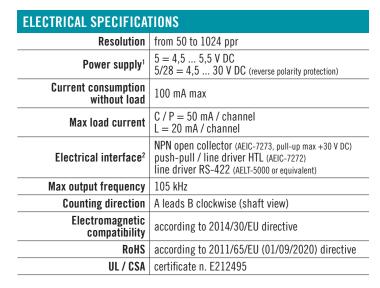
RESOLUTIONS

50* - **100** - **200** - 250 - 256 - 360 - 400 - **500** - **512** - **1000** - 1024

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







MECHANICAL SPECIFICA	ATIONS			
Shaft diameter	ø 6 mm			
Enclosure rating	IP 54 (IEC 60529)			
Max rotation speed	3000 rpm			
Max shaft load ³	5 N axial / radial			
Shock	50 G, 11 ms (IEC 60068-2-27)			
Vibration	10 G, 10 2000 Hz (IEC 60068-2-6)			
Moment of inertia	0,05 x 10 ⁻⁶ kgm ² (1,2 x 10 ⁻⁶ lbft ²)			
Starting torque (at +20°C / +68°F)	< 0,01 Nm (1,42 Ozin)			
Bearing stage material	aluminum UNI 5076			
Shaft material	1.4305 / AISI 303 stainless steel			
Housing material	PA66 glass fiber reinforced			
Bearings	n.2 ball bearings			
Bearings life	10 ⁹ revolutions			
Operating temperature ^{4,5}	-20° +70°C (-4° +158°F)			
Storage temperature ⁵	-20° +70°C (-4° +158°F)			
Weight	150 g (5,29 oz)			

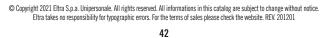
¹ as measured at the transducer without cable influences

CONNECTIONS

COMMECTIONS		
Function	Cable C / P	Cable L
+V DC	red	red
0 V	black	black
A+	green	green
A-	/	brown or grey
B+	yellow	yellow
В-	/	orange
Z+	blue	blue
Z-	/	white
<u></u>	shield	shield







² for further details refer to OUTPUT LEVELS on TECHNICAL BASICS section ³ maximum load for static usage

⁴ measured on the transducer flange

⁵ condensation not allowed