

MAIN FEATURES

 \emptyset 36 mm series of encoders, recommended for feedback control systems on AC servomotors, interchangeable with the size 15 resolver at the rear of the motor.

- 6 channel encoder with optical generation of "Hall effect phases" (commutation signals)
- · Signal transmission via bit-parallel bus
- · Easy mechanical mounting
- · Small dimensions
- · Wide range of resolutions available
- · High temperature resistance



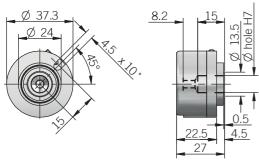


ORDERING CODE	EF	36K	4	L	512	S	5	L	8	X	6	PR	. XXX
	SERIES												
incremental encoder wi	·	MODEL											
blind hollov	w shaft with rear fix												
			POLES										
		es (2 pole es (3 pole											
	·	٠.	es pair) 8										
ELECTRICA	L INTERFACE FOR		TATION S N open co										
			ne driver										
		IN		TAL RESO									
				available									
						O PULSE							
				WI	thout zero with zero	o pulse S							
							SUPPLY						
			EL ECTDI	^AI INITEI			5 V DC 5						
			ELECTRI	CAL INTE	KFACE FC			RS-422 L					
								BORE DIA					
								(3/8") r	mm 8 nm 9,52				
								. ,	mm 10				
								ENC	LOSURE	RATING IP 40 X			
									MAX F	ROTATION	SPEED		
											0 rpm 6		
									radial ca	ble (standa	OUTPU		
				pre	ferred cab	le lengths 1	,5/2/3/5	5 / 10 m, to b					

VARIANT custom version XXX



36K



 * ø 4 mm torque pin min 0.5mm from bottom end

for size 15 Resolver flange please refer to Accessories recommended mating shaft tolerance g6 dimensions in mm

ELECTRICAL SPECIFICA	TIONS				
Incremental resolution	from 500 to 1024 ppr				
Power supply ¹	4,5 5,5 V DC				
Current consumption without load	150 mA max				
Max load current	20 mA / channel (line driver RS-422) 30 mA / channel (NPN open collector)				
Electrical interface for incremental signals ²	line driver RS-422 (AELT-5000 or similar)				
Electrical interface for Hall phases ²	NPN open collector (pull-up max +30V DC) line driver RS-422 (AELT-5000 or similar)				
Max output frequency	150 kHz				
Mean time to dangerous failure (MTTF _d) ³ according to EN ISO 13849-1	300 years				
Mission time (Tm) ³	20 years				
Diagnostic coverage (DC) ³	0%				
Counting direction	A leads B clockwise (shaft view)				
Index signal	180°e (gated A)				
Cable type	shielded - fixed installation conductors section 0,14 mm²/AWG 26 bending radius min 50 mm				
Electromagnetic compatibility	according to 2014/30/EU directive				
RoHS	according to 2011/65/EU directive				
UL / CSA	file n. E212495				

RESOLUTIONS

500 4 / 6 poles 512 4 / 6 poles 1000 6 / 8 poles 1024 4 / 6 / 8 poles

please directly contact our offices for other pulses

MECHANICAL SPECIFICATIONS		
Bore diameter	ø 8 / 9,52 (3/8") / 10 mm	
Enclosure rating	IP 40 (IEC 60529)	
Max rotation speed	d 6000 rpm	
Shock	50 G, 11 ms (IEC 60068-2-27)	
Vibration	5 G, 10 500 Hz (IEC 60068-2-6)	
Moment of inertia	0,5 x 10 ⁻⁶ kgm ² (12 x 10 ⁻⁶ lbft ²)	
Starting torque (at +20°C / +68°F)	< 0,01 Nm (1,42 Ozin)	
Bearing stage material	aluminum	
Shaft material	stainless steel	
Housing material	aluminum	
Bearings	n.2 ball bearings	
Bearings life	10° revolutions	
Operating temperature ^{4, 5}	^{4, 5} -10° +85°C (+14° +185°F)	
Storage temperature ⁵	rage temperature ⁵ -25° +85°C (-13° +185°F)	
Weight	150 g (5,29 oz)	

¹ as measured at the transducer without cable influences

⁵ condensation not allowed

CONNECTIONS	
Function	Cable
+V DC	red
0 V	black
A+	green
B+	yellow
Z+	blue
A-	brown
B-	orange or pink
Z-	white
U+	grey
V+	violet
W+	grey-pink
U-	red-blue
V-	white-green
W-	brown-green
_	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

⁴ measured on the transducer flange