

EF 36 K Blind hollow shaft incremental encoder

MAIN FEATURES

ø 36 mm encoder series recommended in feedback control systems on AC servomotors, interchangeable with size 15 Resolver in the back of the motor.

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

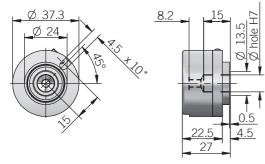




ORDERING CODE	EF	36K	4	L	512	S	5	L	8	Х	6	PR	. XXX
incremental encoder with Hall pha blind hollow shaft wi		MODEL											
	4 po 6 po 8 po	MOTO les (2 pole les (3 pole les (4 pole	es pair) <mark>6</mark> es pair) <mark>8</mark>										
ELECTRICAL INT	ERFACE	N	PN open c ine driver	ollector C RS-422 L									
			p	ENTAL RES or from 50 e available									
				V	vithout zer	RO PULSE To pulse S To pulse Z							
				CTDICAL		POWER	5 V DC 5						
ELECTRICAL INTERFACE FOR INCREMENTAL SIGNALS line driver RS-422 L BORE DIAMETER													
mm 8 (3/8") mm 9,52 mm 10													
								E		E RATING IP 40 X X ROTATIO	IN SPEED		
					nreferred o	able length	s 1 5 / 2 / 3	/ 5 / 10 m,		cable (stan	dard length	P UT TYPE 0,3 m) PR	
					prototriou		5 1,0 / 2 / 3	, , , , , , , , , , , , , , , , , , ,				-	VARIANT rsion XXX



36 K



* 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 SPECIFICATIONS

from 500 to 1024 ppr
4,5 5,5 V DC
150 mA max
20 mA / channel (line driver RS-422) 30 mA / channel (NPN open collector)
line driver RS-422 (AELT-5000 or similar)
NPN open collector (pull-up max +30V DC) line driver RS-422 (AELT-5000 or similar)
150 kHz
A leads B clockwise (shaft view)
according to 2014/30/EU directive
according to 2011/65/EU directive
certificate n. E212495

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			UK	•

Cable
red
black
green
yellow
blue
brown
orange or pink
white
grey
violet
grey-pink
red-blue
white-green
brown-green
shield

MECHANICAL SPECIFICATIONS				
Bore diameter	ø 8 / 9,52 (3/8") / 10 mm			
Enclosure rating	IP 40 (IEC 60529)			
Max rotation speed	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	EN-AW 2011 aluminum			
Shaft material	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}	-10° +85°C (+14° +185°F)			
Storage temperature ⁴	-25° +85°C (-13° +185°F)			
Weight	150 g (5,29 oz)			

¹ as measured at the transducer without cable influences

 $^{\rm 2}$ for further details refer to OUTPUT LEVELS on TECHNICAL BASICS section

³ measured on the transducer flange

⁴ condensation not allowed

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

