

EF 36 K

BLIND HOLLOW SHAFT INCREMENTAL ENCODER



Specifications

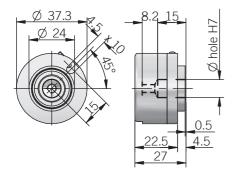
 \emptyset 36 mm encoder series recommended in feedback control systems on AC servomotors, interchangeable with size 15 Resolver in the back of the motor.

- · 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
increme	SERIES ental encoder with Hall phases EF												
mereme	intal elicouel with hall phases Li	MODEL											
	blind hollow shaft with rear												
			OR POLES										
			4 poles 4 6 poles 6										
			6 poles 6 8 poles 8										
	ELECTRONIC INTERFACE	FOR COM	MUTATION PN open co	SIGNALS									
			ine driver										
					OLUTION								
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				,	ZEF	RO PULSE							
				V	vithout zer with zer	o pulse S o pulse Z							
						POWE	SUPPLY						
						FLFC	5 V DC 5 Tronic in						
								RS-422 L					
								BORE D	DIAMETER				
							9.5	52 mm (3/	mm 8 8") mm 9				
									mm 10				
								l	ENCLOSUR	RE RATING IP 40 X			
									M	AX ROTATION			
											000 rpm 6		
									radial cah	le (standa	OUTF ord length 0	PUT TYPE	
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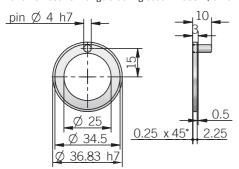
EF 36 K



dimensions in mm

ACCESSORIES

size 15 Resolver flange ordering code: FLG004 (P/N 94010076)



for mounting instruction please refer to product installation notes

CONNECTIONS					
Function	Cable output				
+V DC	red				
0 V	black				
Ch. A	green				
Ch. B	yellow				
Ch. Z	blue				
Ch. A-	brown				
Ch. B-	orange or pink				
Ch. Z-	white				
Ch. U	grey				
Ch. V	violet				
Ch. W	grey-pink				
Ch. U-	red-blue				
Ch. V-	white-green				
Ch. W-	brown-green				
<u></u>	shield				

ELECTRICAL SPECIFICATIONS			
Incremental resolution	1		
Power supply	5 = 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)		
Output type for incremental signals	line driver RS-422		
Output type for Hall phases	NPN open collector (pull-up max +30V DC) line driver RS-422		
Max output frequency	150 kHz		
Counting direction	A leads B clockwise (shaft view)		
Electromagnetic compatibility	IEC 61000-6-1 IEC 61000-6-3		

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			
Starting torque (at +20°C / +68°F)	< 0,01 Nm			
Body material	EN-AW 2011 aluminum			
Shaft material	1.4305 / AISI 303 stainless steel			
Housing material	EN-AW 2011 aluminum			
Bearings	2 ball bearings			
Bearings life	10° revolutions			
Operating temperature	-10° +85°C (+14° +185°F)			
Storage temperature	-25° +85°C (-13° +185°F)			
Fixing torque for shaft fixing	1,5 Nm max			
Weight	150 g (5,29 oz)			

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