



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







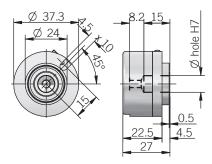




ORDERING CODE	EF	36K	4	L	512	S	5	L	8	X	6	PR	. XXX
incremental	SERIES encoder with Hall phases EF												
	blind hollow shaft with rear fix	MODEL											
		0	R POLES										
	6 pol	es (3 pole es (4 pole	s pair) 6										
	ELECTRICAL INTERFACE	FOR COM											
		li	ne driver	RS-422 L Ental Res	NI IITINN								
			pp	or from 500 for pulses a	to 1024								
				V	ZEF ithout zer	RO PULSE To pulse S							
						o pulse Z	R SUPPLY						
			FIF	CTRICAL I	NTERFACI		5 V DC 5						
				.0111107121				RS-422 L	IAMETER				
									mm 8 52 mm 9				
									mm 10				
										IP 40 X			
									III.		00 rpm 6	PUT TYPE	
					nrefe	rred cable le	ongths 2 / 3	3/5/10 m,			dard length	0,3 m) PR	
					proto	iioa oabic ii	g3 2 / 0	,, 0, 10 III,	to be added	3 41101 0011	01 111 L (0g	. 1 110/	VARIANT



custom version XXX



for size 15 Resolver flange please refer to Accessories section $\ \, \hbox{dimensions in } mm$

ELECTRICAL SPECIFICATIONS		
Incremental resolution	from 500 to 1024 ppr	
Power supply	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 (AELT-5000 or equivalent)	
Output type for Hall phases	NPN open collector (pull-up max +30V DC) line driver RS-422 (AELT-5000 or equivalent)	
Max output frequency	150 kHz	
Counting direction	A leads B clockwise (shaft view)	
Electromagnetic compatibility	according to 2014/30/EU directive	
RoHS	according to 2011/65/EU directive	
UL / CSA	certificate n. E212495	

^{*} for further details please see OUTPUT LEVELS under TECHNICAL BASICS section

CONNECTIONS	
Function	Cable
+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
÷	shield

MECHANICAL SPECIFICATIONS		
Bore diameter	ø 8 / 9,52 (3/8") / 10 mm	
Enclosure rating	g 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 kgm² (12 x 10 ⁻⁶ lbft²)	
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	2 ball bearings	
Bearings life	10 ⁹ 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



