



## MAIN FEATURES

Hollow shaft ø 48 mm encoder series recommended for motor feedback.

- · 3 channel encoder (A / B / Z) up to 2048 ppr
- $\cdot$  Power supply up to +24 V DC with several electrical interfaces available
- · Up to 150 kHz output frequency
- · Cable output, connector available on cable end
- · Through hollow shaft diameter up to 8 mm
- · Mounting by stator coupling









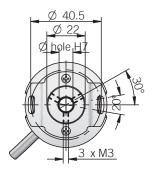


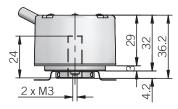
ORDERING CODE	EL	48C	500	S	5	L	8	X	6	PR	. XXX
	SERIES incremental encoder series EL blind hollow si through hollow si	MODEL haft 48C haft 48P RES from 100 for pulses a	OLUTION to 2048 evailability ZEF without zer with zer th L electrica	co PULSE o pulse S o pulse Z POWEE Il interface) 8 24 V ELEC N	R SUPPLY 5 V DC 5 7 DC 8/24 TRICAL IN PN open c pu lin	ITERFACE ollector C ish-pull P e driver L BORE D	IAMETER mm 6 mm 8 ENCLOSUR MA	E RATING IP 40 X IX ROTATIO 60 cable (stank	IN SPEED 00 rpm 6	<b>PUT TYPE</b> 0,3 m) PR	
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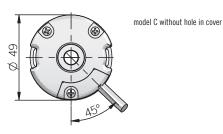




## 48 C / P







dimensions in mm

ELECTRICAL SPECIFICATIONS			
Resolution	from 100 to 2048 ppr		
Power supply	5 = 4,5 5,5 V DC 8/24 = 7,6 25,2 V DC		
Current consumption without load	100 mA max		
Max load current	C / P = 30 mA / channel L = 20 mA / channel		
Output type*	NPN open collector (pull-up max +30V DC) push-pull / line driver HTL (AEIC-7272) 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		

<sup>\*</sup> for further details please see OUTPUT LEVELS under TECHNICAL BASICS section

MECHANICAL SPECIFICATIONS			
Bore diameter	ø 6 / 8 mm		
Enclosure rating	IP 40 (IEC 60529)		
Max rotation speed	6000 rpm		
Shock	50 G, 11 ms (IEC 60068-2-27)		
Vibration	10 G, 10 500 Hz (IEC 60068-2-6)		
Moment of inertia	2,5 x 10 <sup>-6</sup> kgm <sup>2</sup> (59 x 10 <sup>-6</sup> lbft <sup>2</sup> )		
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	PA 66 glass fiber reinforced		
Bearings	2 ball bearings		
Bearings life	109 revolutions		
Operating temperature	-20° +85 °C (-4° +185°F)		
Storage temperature	-25° +85°C (-13° +185°F)		
Weight	100 g (3,53 oz)		

CONNECTIONS		
Function	Cable C / P	Cable L
+V DC	red	red
0 V	black	black
Ch. A	green	green
Ch. A-	/	brown
Ch. B	yellow	yellow
Ch. B-	/	orange
Ch. Z	blue	blue
Ch. Z-	1	white
<del>-</del>	shield	shield

## **RESOLUTIONS**

**100** - 200 - 360 - 400 - 500 - **512** - 1000 - **1024** - 2000 - **2048** 

please directly contact our offices for other pulses, preferred resolutions in bold



