



MAIN FEATURES

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

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



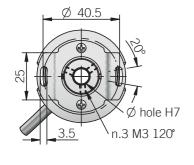


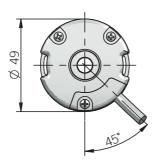
ORDERING CODE	EL	48C	500	S	5	L	8	X	6	PR	. XXX
	SERIES incremental encoder series EL blind hollow s through hollow s	MODEL haft 48C haft 48P RES from 10C e available	SOLUTION to 2048 pulses list ZEF vithout zer with zer	RO PULSE o pulse S o pulse Z POWEF al interface) 8 24 V ELEC	S SUPPLY 5 V DC 5 DC 8/24 TRICAL IN PN open c	ITERFACE Ollector C Ish-pull P e driver L BORE D	DIAMETER mm 6 mm 8 ENCLOSUR	E RATING IP 40 X AX ROTATIO 60	ON SPEED 100 rpm 6 OUTI	PUT TYPE	. AAA
			preferred o	able length	s 1,5 / 2 / 3	3/5/10 m,		cable (stand d after OUTP	PUT TYPE (eg	g. PR5)	VARIANT rsion XXX



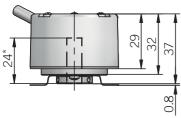


48C / P





model C without hole on cover



^{*} maximum protusion of the customer shaft in blind hollow shaft model recommended mating shaft tolerance g6 dimensions in mm

ELECTRICAL SPECIFICATIONS			
from 100 to 2048 ppr			
5 = 4,5 5,5 V DC 8/24 = 7,6 25,2 V DC			
100 mA max			
C / P = 30 mA / channel L = 20 mA / channel			
NPN open collector (pull-up max +30V DC) push-pull / line driver HTL (AEIC-7272 or similar) line driver RS-422 (AELT-5000 or similar)			
150 kHz			
A leads B clockwise (shaft view)			
180°e (gated A)			
330 years			
20 years			
0%			
shielded - fixed installation conductors section 0,22 mm²/AWG 24 bending radius min 60 mm			
according to 2014/30/EU directive			
according to 2011/65/EU directive			
file n. E212495			

CONNECTIONS		l
Function	Cable C / P	Cable L
+V DC	red	red
0 V	black	black
A+	green	green
A-	1	brown or grey
B+	yellow	yellow
B-	1	orange
Z+	blue	blue
Z-	1	white
<u></u>	shield	shield

MECHANICAL SPECIFICATIONS			
Bore diameter	ø6/8 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 ⁻⁶ kgm ² (59 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	PA 66 glass fiber reinforced		
Bearings	n.2 ball bearings		
Bearings life	10° revolutions		
Operating temperature ^{4, 5}	-20° +85 °C (-4° +185°F)		
Storage temperature ⁵	⁵ -25° +85°C (-13° +185°F)		
Weight	0 - 7		
as massured at the transducer without eable influences			

¹ as measured at the transducer without cable influences

RESOLUTIONS

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

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



CONNECTIONS

 $^{^{\}rm 2}$ 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

⁵ condensation not allowed