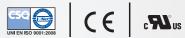




MAIN FEATURES

 \emptyset 120 mm through hollow shaft encoder designed for medium / big size motors.

- · 3 channel encoder (A / B / Z) up to 2048 ppr
- · Power supply up to +24 VDC with several electronic interfaces available
- · Up to 105 kHz output frequency
- · Cable output, connector available on cable end
- · Through hollow shaft diameter up to 60 mm
- · Shaft fixing by grub screws







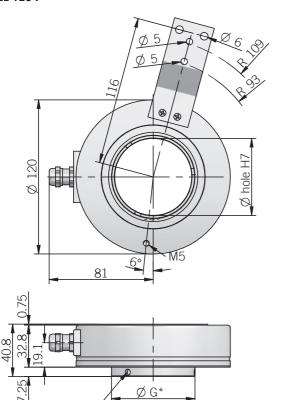


ORDERING CODE	EL	120P	1024	S	5/28	P	50	X	3	PR	. XXX
ORDERING CODE	SERIES incremental encoder series EL through hollow shaft with spi	MODEL ring 120P RES or from 400 r pulses at	SOLUTION 0 to 2048 xailability ZEF vithout zer with zer electronic c interface	RO PULSE o pulse S o pulse Z POWEI interface)) 8 24 V 5 28 V	R SUPPLY 5 V DC 5 7 DC 8/24 7 DC 5/28 TRONIC IN PN open c pu ted (AEIC-	ITERFACE NPN N Ollector C sh-pull P		X	3	PR	. XXX
							mm 40 mm 50 mm 60				
						E	ENCLOSUR	IP 54 X			
							MA	X ROTATIO 30	00 rpm 3		
							radial cab	le (standa		PUT TYPE),5 m) PR	
											VARIANT



custom version XXX

EL 120 P

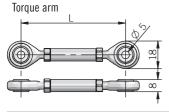


SHAFT DIAMETER	*G
ø 40	ø 65
ø 50	ø 65
ø 60	ø 75

'n°3 x M5 120°

dimensions in mm

ACCESSORIES



Lenght	Ordering code			
$L = 80 \pm 10$ mm	SN5A30 (P/N 94010061)			
$L = 110 \pm 10$ mm	SN5A60 (P/N 94010070)			
L = 140 ± 10mm	SN5A90 (P/N 94010071)			
With torque arm n° 2 M5 x 12 UNUSO 7380 are included				

ELECTRICAL SPECIFICATIONS				
Resolution	from 400 to 2048 ppr			
Power supply 5 = 4,5 5,5 V DC 5/28 = 4,75 29,4 V DC 8/24 = 7,6 25,2 V DC (reverse polarity prof				
Current consumption without load	100 mA max			
Max load current	N/C/P/PC = 50 mA/channel L = 20 mA/channel			
Output type*	NPN / NPN open collector / push-pull / line driver			
Max output frequency	105 kHz			
Counting direction	A leads B clockwise (shaft view)			
Electromagnetic compatibility	IEC 61000-6-2 IEC 61000-6-4			

^{*}output levels according to power supply, for further details please see under Technical basics section

MECHANICAL SPECIFICATIONS				
Bore diameter	ø 40 / 50 / 60 mm			
Enclosure rating	IP 54 (IEC 60529)			
Max rotation speed	3000 rpm			
Shock	50 G, 11 ms (IEC 60068-2-27)			
Vibration	10 G, 10 2000 Hz (IEC 60068-2-6)			
Moment of inertia	approx 215 x 10 ⁻⁶ kgm ²			
Starting torque (at +20°C / +68°F)				
Body material	EN-AW 2011 aluminum			
Shaft material	EN-AW 2011 aluminum			
Housing material	EN-AW 2011 aluminum			
Bearings	2 ball bearings			
Bearings life	10° revolutions			
Operating temperature	0° +60 °C (+32° +140°F)			
Storage temperature	-25° +70 °C (-13° +158°F)			
Fixing torque for grub screws	max 0,75 Nm			
Weight	750 g (26,46 oz)			

CONNECTIONS		
Function	Cable output N / C / P / PC	Cable output Line driver
+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-	/	white
<u>+</u>	shield	shield

RESOLUTIONS

400 - 800 - 1000 - **1024** - 1440 - 1600 - 2000 - **2048**

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



