

EL 63 FB / GB / PB / PBF / PC / PCF

BLIND / THROUGH HOLLOW SHAFT INCREMENTAL ENCODER



Specifications

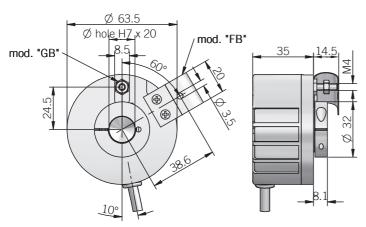
Hollow shaft encoder series for small AC motors, thanks to compact size (only 35mm height).

- \cdot 3 channel encoder (A / B / Z) up to 2500 ppr
- · Power supply up to +28 VDC with several electronic interfaces available
- · Up to 300 kHz output frequency
- · Cable output, connector available on cable end
- · Through or blind hollow shaft diameter up to 15 mm
- · Shaft fixing by collar clamping

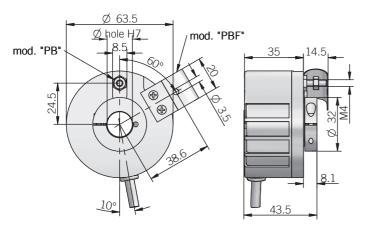
ORDERING CODE	EL	63GB	500	S	5/28	N	8	X	3	Р	. XXX
URDERING CUDE	SERIES incremental encoder EL blind hollow shaft with spr blind hollow shaft with antirotation through hollow shaft with antirotation through hollow shaft with sprii rear fixing shaft with antirotation rear fixing shaft with sprii	MODEL ing 63FB pin 63GB pin 63PB ng 63PBF pin 63PCF RES ppr from a r pulses au (with L c electronic	OLUTION L to 2500 vailability ZEF vithout zer with zer electronic c interface	RO PULSE o pulse S o pulse Z POWEF interface)) 8 24 V 5 28 V ELEC N	R SUPPLY 5 V DC 5 7 DC 8/24 7 DC 5/28 TRONIC IN PN open c pu ected pus lin	ITERFACE NPN N Ollector C sh-pull P e driver L S-422 RS BORE I	DIAMETER mm 8 mm 10 mm 12 mm 14 mm 15	TING 54 X STATION 3000	SPEED rpm 3	UT TYPE	. XXX
									С	ustom ver	VARIANT sion XXX



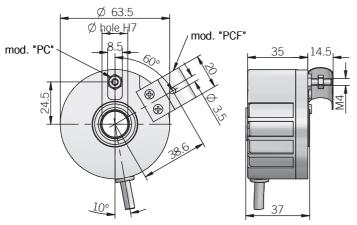
EL 63 FB / GB



EL 63 PB / PBF



EL 63 PC / PCF



anti-rotation pin is included in model GB / PB / PC, for mounting instruction please refer to product installation notes

ELECTRICAL SPECIFICATIONS			
Resolution	from 1 to 2500 ppr		
Power supply	$5 = 4,5 \dots 5,5$ V DC $5/28 = 4,75 \dots 29,4$ V DC $8/24 = 7,6 \dots 25,2$ V DC (reverse polarity protection)		
Power draw without load	800 mW		
Max load current	N/C/P/PC = 50 mA/channel L/RS = 20 mA/channel		
Output type*	NPN / NPN open collector / push-pull / line driver		
Max output frequency	300 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 8 / 10 / 12 / 14 / 15 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	4 x 10 ⁻⁶ kgm ²		
Starting torque (at +20°C / +68°F)	< 0,04 Nm		
Body 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	10 ⁹ revolutions		
Operating temperature	-10° +60 °C (+14° +140°F)		
Storage temperature collar clamping	-25° +70 °C (-13° +158°F) 1,5 Nm recommended		
Weight	350 g (12,35 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		
÷	shield	shield		

RESOLUTIONS

1 - 2 - 5 - **20** - 25 - **32** - 50 - 60 - 100 - 128 - **200** - 250 - 256 - **360** - 400 - 500 - 512 - 600 - 720 - 1000 - **1024** - 1440 - 1800 - **2000** - 2048 - 2500

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