

EL 63 FB / GB / PB / PBF / PC / PCF BLIND / THROUGH HOLLOW SHAFT INCREMENTAL ENCODER

MAIN FEATURES

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

- · 3 channel encoder (A / B / Z) up to 2500 ppr
- Power supply up to +28 V DC with several electrical interfaces available
- Up to 300 kHz output frequency
- · Cable output, connectors 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	Р	8	X	3	PR	. XXX
	SERIES incremental encoder EL blind hollow shaft with torque stop blind hollow shaft with torque through hollow shaft with torque stop s rear fixing shaft with torque stop s rear fixing shaft with torque stop s	MODEL slot 63FB pin 63GB pin 63PB lot 63PCF lot 63PCF RES ppr from 1 e available	OLUTION L to 2500 pulses list ZEF without zer with zer h L electrica	RO PULSE ro pulse S ro pulse Z POWEI al interface) 5 28 V ELEC N	R SUPPLY 5 V DC 5 / DC 5/28 :TRICAL IN PN open с ри Iin	ITERFACE Iollector C Ish-pull P ie driver L S-422 RS BORE D	DIAMETER mm 8 mm 10 mm 12 mm 14 mm 15 ENCLOSUR	E RATING IP 54 X X Rotatio			. XXX
							radial c			PUT TYPE	
			prefe	rred cable le	engths 2 / 3	8 / 5 / 10 m,	to be added			. PR5)	
									(custom ver	VARIANT sion XXX









OPTICAL HOLLOW SHAFT INCREMENTAL ENCODERS | EL 63 GB / FB / PB / PBF / PC / PCF





torque pin is included in model GB / PB / PC, for model FB / PBF / PCF please refer to Accessories

RECOMMENDED INTERFACE FLANGE DESIGN 63 PC



recommended mating shaft tolerance g6 dimensions in mm



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ELECT	KIGAL	SPEC	JIFIG	AIIUN	2

from 1 to 2500 ppr				
5 = 4,5 5,5 V DC 5/28 = 4,5 30 V DC (reverse polarity protection)				
800 mW max				
C / P = 50 mA / channel L / RS = 20 mA / channel				
NPN open collector (AEIC-7273, pull-up max +30 V DC) push-pull / line driver HTL (AEIC-7272 or similar) line driver RS-422 (AELT-5000 or similar)				
300 kHz				
A leads B clockwise (shaft view)				
180°e (gated A)				
200 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				

MECHANICAL SPECIFICATIONS				
Bore diameter	ø8/10/12/14/15 mm			
Enclosure rating	IP 54 (IEC 60529)			
Max rotation speed	3600 rpm continuous / 4000 rpm peak			
Shock	50 G, 11 ms (IEC 60068-2-27)			
Vibration	10 G, 10 2000 Hz (IEC 60068-2-6)			
Moment of inertia	a 4 x 10 ⁻⁶ kgm ² (95 x 10 ⁻⁶ lbft ²)			
Starting torque (at +20°C / +68°F)	< 0,04 Nm (5,66 Ozin)			
Bearing stage material	aluminum			
Shaft material	stainless steel			
Housing material	PA 66 glass fiber reinforced			
Bearings	n.2 ball bearings			
Bearings life	10 ⁹ revolutions			
Operating temperature ^{4, 5}	, ⁵ -10° +60 °C (+14° +140°F)			
Storage temperature ⁵	⁵ -25° +70 °C (-13° +158°F)			
Weight	350 g (12,35 oz)			
as measured at the transducer without cable influences for further details refer to OUTPUT LEVELS on TECHNICAL BASICS section 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

CONNECTIONS

пге	<u> </u>	 n 1	1 -
RES			
IL J	ULU	 UI	

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

Function	Cable C / P	Cable L / RS
+V DC	red	red
0 V	black	black
A+	green	green
A-	/	brown or grey
B+	yellow	yellow
В-	/	orange
Z+	blue	blue
Z-	/	white
÷	shield	shield