

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 35mm 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, connector available on cable end
- Through or blind hollow shaft diameter up to 15 mm
- · Shaft fixing by collar clamping











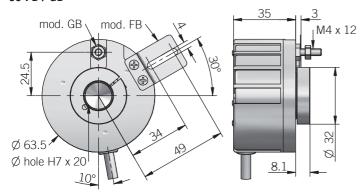
ORDERING CODE	EL	63GB	500	S	5/28	P	8	X	3	PR	. XXX
incremental end blind hollow shaft with tore blind hollow shaft wit through hollow shaft wit through hollow shaft with torqu rear fixing shaft wit rear fixing shaft with torqu	series oder EL que stop in torque in torque ie stop s in torque ie stop s	MODEL slot 63FB pin 63GB pin 63PB lot 63PC lot 63PCF RES ppr from the available	COLUTION 1 to 2500 pulses list ZEF vithout zer with zer h L electrica	RO PULSE o pulse S o pulse S POWEF al interface) 5 28 V ELEC N	R SUPPLY 5 V DC 5 7 DC 5/28 ETRICAL IN PN open c pu lin - output R	ITERFACE ollector C sh-pull P e driver L S-422 RS BORE I	PIAMETER mm 8 mm 10 mm 12 mm 14 mm 15 ENCLOSUR	E RATING IP 54 X XX ROTATIO 30 cable (stan)	J N SPEED 00 rpm 3 OUT 1 dard length	PUT TYPE 1,5 m) PR	. XXX
			proto	00010 10		, 5, 10 111,	to bo dudot	0011	PUT TYPE (eg		VARIANT



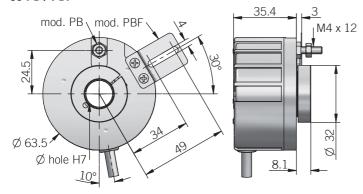


custom version XXX

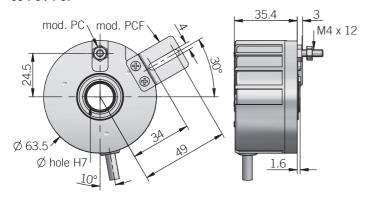
63 FB / GB



63 PB / PBF



63 PC / PCF



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

dimensions in mm

ELECTRICAL SPECIFICATIONS				
Resolution	from 1 to 2500 ppr			
Power supply ¹	$5 = 4,5 \dots 5,5 \text{ V DC}$ $5/28 = 4,5 \dots 30 \text{ V DC}$ (reverse polarity protection)			
Power draw without load	800 mW max			
Max load current	C/P = 50 mA/channel L/RS = 20 mA/channel			
Electrical interface ²	NPN open collector (AEIC-7273, pull-up max +30 V DC) push-pull / line driver HTL (AEIC-7272) line driver RS-422 (AELT-5000 or equivalent)			
Max output frequency	300 kHz			
Counting direction	A leads B clockwise (shaft view)			
Electromagnetic compatibility	according to 2014/30/EU directive			
RoHS	according to 2015/863/EU directive			
UL / CSA	certificate n. E212495			

MECHANICAL SPECIFICATIONS				
Bore diameter	ø8/10/12/14/15 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 (95 x 10 ⁻⁶ lbft ²)			
Starting torque (at +20°C / +68°F)	< 0,04 Nm (5,66 Ozin)			
Bearing stage material	EN-AW 2011 aluminum			
Shaft material	1.4305 / AISI 303 stainless steel			
Housing material	PA 66 glass fiber reinforced			
Bearings	n.2 ball bearings			
Bearings life	10 ⁹ revolutions			
Operating temperature ^{3, 4}	-10° +60 °C (+14° +140°F)			
Storage temperature ⁴	-25° +70 °C (-13° +158°F)			
Weight	350 g (12,35 oz)			

as measured at the transducer without cable influences

⁴ condensation not allowed

CONNECTIONS		
Function	Cable C / P	Cable L / RS
+V DC	red	red
0 V	black	black
A+	green	green
A-	/	brown
B+	yellow	yellow
В-	/	orange
Z+	blue	blue
Z-	/	white
<u></u>	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





² for further details refer to OUTPUT LEVELS on TECHNICAL BASICS section

³ measured on the transducer flange