

MAIN FEATURES

Series of miniaturized encoders for integration on small size AC/DC motors, stepper motors or for limited size applications.

- · 3 channel encoder (A / B / Z) up to 1024 ppr
- · Power supply up to +30 V DC with several electrical interfaces available
- · Up to 105 kHz output frequency
- · No wear due to absense of bearings
- · Easy assembly
- · Compact size









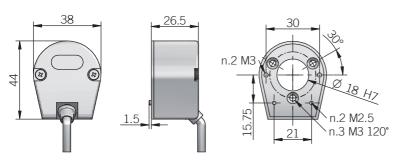


ORDERING CODE	EH	30M	500	S	5/30	P	6	X	6	PR	. XXX
	SERIES al encoder series EH kit encoder with fla kit enco	MODEL nge 17M oder 30M RES pr from 56 e available	OLUTION 1 to 1024 pulses list ZER vithout zer with zer	RO PULSE o pulse S o pulse Z POWEF 5 30 V ELEC N	s SUPPLY 5 V DC 5 DC 5/30 TRICAL IN PN open c pu lin output R	ITERFACE Ollector C sh-pull P e driver L S-422 RS BORE D (1/4")	IAMETER mm 6 mm 6,35 NCLOSUR	E RATING	6	PR	. XXX
					(IIIUU.	1/1/1/11 40		X ROTATIO			
								60	00 rpm 6	OUT TYPE	
								able (stand	dard length	0,5 m) PR	
			preferred c	able length	s 1,5 / 2 / 3	/5/10 m,	to be added	l after OUTP	UT TYPE (eg		VARIANT

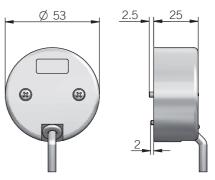


custom version XXX

17 M

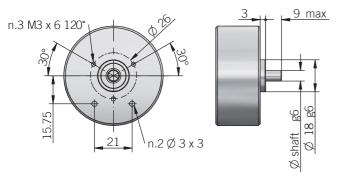


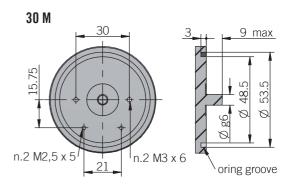
30 M



RECOMMENDED INTERFACE FLANGE DESIGN

17 M





dimensions in mm

ELECTRICAL SPECIFICATIONS		
Resolution	from 50 to 1024 ppr	
Power supply ¹	$ 5 = 4,5 \dots 5,5 \text{ V DC} $	
Current consumption without load	50 mA (2 channels A / B) 100 mA (3 channels A / B / Z)	
Max load current	C / P = 50 mA / channel L = 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	105 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	

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Cable P	Cable L / RS	
red	red	
black	black	
green	green	
/	brown	
yellow	yellow	
/	orange	
blue	blue	
1	white	
	Cable P red black green / yellow /	

shield

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Bore diameter	ø 6 / 6,35 (1/4") mm	
Enclosure rating	mod. 17 IP 40 (IEC 60529) mod. 30 IP 54 (IEC 60529) when properly installed with oring kit (not supplied, please refer to the Accessories)	
Max rotation speed	6000 rpm (limited by output frequency)	
Shock	50 G, 11 ms (IEC 60068-2-27)	
Vibration	10 G, 10 2000 Hz (IEC 60068-2-6)	
Moment of inertia	0,5 x 10 ⁻⁶ kgm ² (12 x 10 ⁻⁶ lbft ²)	
Flange material (mod. 17)	aluminium	
Hub material	EN-AW 2011 aluminium	
Cover material	PA66 glass fiber reinforced	
Shaft radial play allowed	± 0,04 mm	
Shaft axial play allowed	± 0,1 mm	
Operating temperature ^{3, 4}	-20° +60°C (-4° +140°F)	
Storage temperature ⁴	-25° +70°C (-13° +158°F)	
Weight	50 g (1,76 oz)	

as measured at the transducer without cable influences

RESOLUTIONS

50* - **100** - **200** - 250 - 256 - 360 - 400 - **500** - 512 - **1000** - 1024

*available only without zero pulse

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





shield

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

³ measured on the transducer flange

⁴ condensation not allowed