

MAIN FEATURES

EMI series encoders are suitable for several application fields like electric motors marine industry, iron and steel industry, textile machines, wood-working, paper-working, glass working, marble-working machinery and, more generally, automation and process control fields.

- · 3 channel encoder (A / B / Z) up to 2048 ppr
- · Cable output, connector available on cable end
- · Compact dimensions
- · No wear due to no contact magnetic technology
- · Bore shaft diameter up to 10 mm
- · IP 67 enclosure rating
- · Wide operating temperature -40° ... +125°C (-40° ... +257°F)









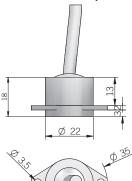


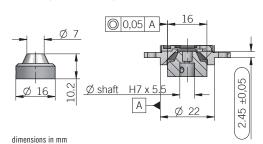
ORDERING CODE	EMI	22A	1024	Z	5	Р	6	S	10	Р	R	. XXX
	SERIES magnetic incremental encoder series EMI clamping flange ø 22 for anodized version please directly contact of	our offices RES	SOLUTION 2 to 2048									
	see table	for pulses a	availability	O PULSE								
		٧	vithout zer									
				POWER	SUPPLY 5 V DC 5							
				ELEC	TRICAL IN	TERFACE						
					pu ine driver	RS-422 L D r bore d	IAMETED					
				MAGNE	I-AG IOAIC	JK DUKL D	mm 6 mm 8					
						(3/8") 9,	,52 mm 9 mm 10					
						E	ENCLOSUR					
							M.A	X ROTATIO	ON SPEED			
										PUT TYPE		
			preferred ca	ble lengths	1,5/2/3/	5 / 10 m, to			ndard lengt TION TYPE (
										DIRECTI	ON TYPE axial A	
											radial R	VARIANT
										(custom ve	



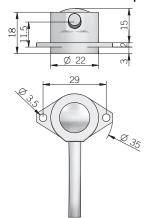


22 A axial cable output





22 A radial cable output





MECHANICAL SPECIFICATIONS

ELECTRICAL SPECIFICATIONS

Resolution	from 2 to 2048 ppr		
Power supply	4,5 5,5 V DC		
Current consumption without load	100 mA max		
Max load current	15 mA / channel		
Output type*	push pull / line driver RS-422 (AELT-5000 or equivalent)		
Max output frequency	205 kHz		
Counting direction	A leads B with clockwise rotation (magnet-actuator view)		
Accuracy	\pm 0,35° typical / \pm 0,50° max		
Electromagnetic compatibility	according to 2014/30/EU directive		
RoHs	according to 2011/65/EU directive		
UL / CSA	certificate n. E212495		

^{*} for further details please see OUTPUT LEVELS under TECHNICAL BASICS section

CONNECTIONS	

COMMECTIONS		
Function	Cable P	Cable L
+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

Bore diameter (magnet-actuator)	ø 6/8/9,52 (3/8")/10 mm		
Enclosure rating	IP 67 (IEC 60529)		
Max rotation speed	10000 rpm		
Shock	50 G, 11 ms (IEC 60068-2-27)		
Vibration	10 G, 10 2000 Hz (IEC 60068-2-6)		
Moment of inertia (magnet-actuator)	0,1 x 10 ⁻⁶ kgm² (2,4 x 10 ⁻⁶ lbft²)		
Bearing stage material	EN-AW 2011 aluminum		
Housing material	EN-AW 2011 aluminum		
Magnet-actuator material	EN-AW 2011 aluminum		
Operating temperature	-40° +125°C (-40° +257°F)		
Storage temperature	-25° +85°C (-13° +185°F)		
Weight	30 g (1,06 oz)		
Magnet actuator mounting tolerances (to get best electrical	± 0,2 mm (axial) ± 0,1 mm (radial)		

RESOLUTIONS

performances)

2 - 4 - 8 - 10 - 16 - 20 - 32 - 40 - 64 - 80 - 100 - 125 - 128 - 200 - 250 - 256 - 400 - 500 - 512 - 1024 - 2048



