

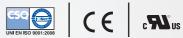
EMI 55 A / AY

MAGNETIC INCREMENTAL KIT ENCODER

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
- · Power supply up to +28 VDC with several electronic interfaces available
- · Cable or M12 connector output, other connectors 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
- \cdot Wide operating temperature -40° ... +125°C (-40° ... +257°F)









ORDERING CODE	EMI	55A	512	Z	5/28	P	10	X	10	P	R	. XXX
	SERIES magnetic incremental encoder series EMI fixing holes ø 48 fixing holes ø 48 mm anodiz see table for	red 55AY RESI ppr from 2 pulses av. w	ailability ZER rithout zer with zer electronic	RO PULSE to pulse S to pulse Z POWEF interface)								
	(230	0.000.0110		5 28 V	/ DC 5/28 Tronic in	TERFACE						
				•	ted (AEIC- lin	e driver L						
		p	ower supp	-		S-422 RS Or Bore D	IAMETER mm 6					
						9,52 (3/8	mm 8 3") mm 9 mm 10					
						E	NCLOSUR					
							MA	X ROTATIO	N SPEED 0 rpm 10			
			female	e connector	r included.	without fe		I	ard length M12 conne	ector M12		
			romaio	. 55,,,,,,,,,	oraaou,		aro prod	10	_ 30 varia	DIRECTI	on TYPE axial A radial R	

VARIANT

custom version XXX

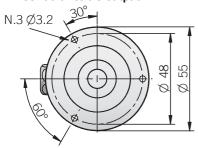


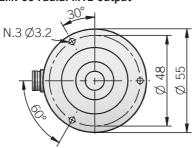


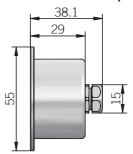
EMI 55 radial cable output

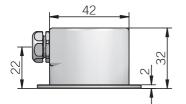
EMI 55 radial M12 output

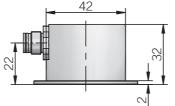
EMI 55 axial cable output



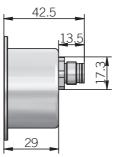


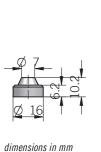


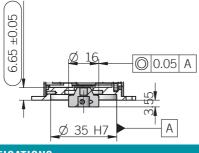














Resolution	from 2 to 2048 ppr		
Power supply	$\begin{array}{l} 5 = 4,5 \dots 5,5 \text{ V DC} \\ 5/28 = 4,75 \dots 29,4 \text{ V DC} \\ 8/24 = 7,6 \dots 25,2 \text{ V DC (reverse polarity protection)} \end{array}$		
Power draw without load	800 mW max		
Max load current	15 mA / channel		
Output type*	push-pull / line driver		
Max output frequency	205 kHz		
Counting direction	A leads B clockwise (magnet-actuator view)		
Accuracy	\pm 0,35° typical / \pm 0,50° max		
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

CONNECTIONS			
Function	Cable output	5 pin M12 output Push-pull	8 pin M12 output Line Driver
0 Volt	black	4	1
+V DC	red	2	7
Ch. A	green	3	6
Ch. B	yellow	1	4
Ch. Z	blue	5	2
Ch. A-	brown	/	5
Ch. B-	orange	/	3
Ch. Z-	white	/	8
÷	shield	housing	housing

MECHANICAL SPECIFICATIONS

MILGHANIGAL OF LOH IGATIONS			
Bore diameter (magnet-actuator)	ø 6 / 8 / 9,52 (3/8") / 10 mm		
Enclosure rating	X = IP 64 (IEC 60529) S = 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 kgm ²		
Body material	EN-AW 2011 aluminum		
Housing material	painted aluminum		
Magnet-actuator material	EN-AW 2011 aluminum		
Operating temperature	-40° +125°C (-40° +257°F) (only for 5 V DC) -40° +100°C (-40° +212°F)		
Storage temperature	-40° +125°C (-40° +257°F)		
Weight	150 g (5,29 oz)		
Magnet actuator mounting tolerances	± 0,2 mm (axial) ± 0,1 mm (radial)		

RESOLUTIONS

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

please directly contact our offices for other pulses

M12 connector (5 pin) M12 A coded solder side view FV



M12 connector (8 pin) M12 A coded solder side view FV



