

## EMI 55 A 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.

- $\cdot$   $\,$  3 channel encoder (A / B / Z) up to 2048 ppr
- Power supply up to +28 V DC with several electrical interfaces available
- $\cdot$  Cable or M12 connector output, other connector available on cable end
- · Compact dimensions
- · No wear due to no contact magnetic technology
- $\cdot$   $\,$  Bore shaft diameter up to 10 mm  $\,$
- · IP 67 Enclosure rating
- · Wide operating temperature -40° ... +125°C (-40° ... +257°F)



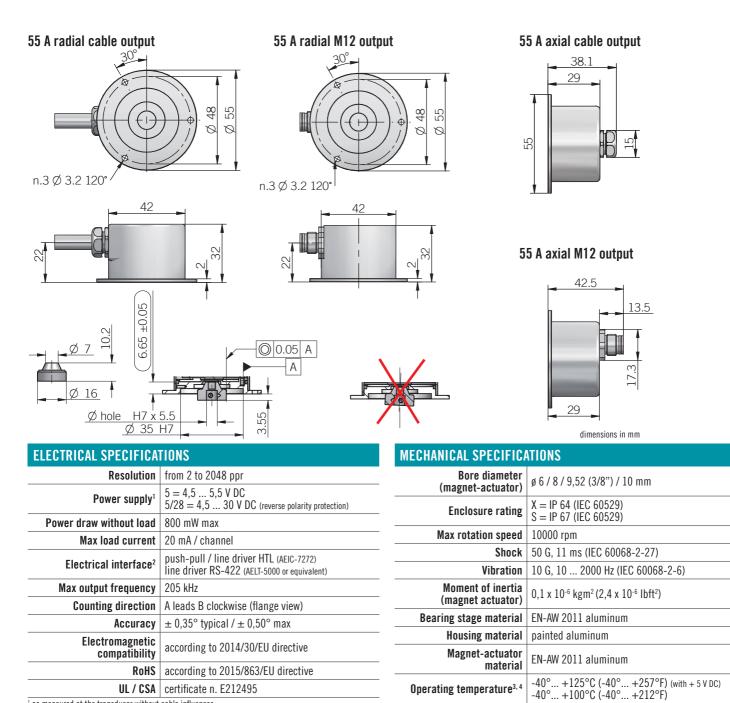


ORDERING CODE	EMI 55A	512	Z	5/28	Р	10	X	10	Р	R	. XXX
magnetic inc	SERIES cremental encoder series EMI MODEL fixing holes Ø 48 mm 55A ed version please directly contact our offices RE ppr from refer to the available (wi	SOLUTION 2 to 2048 pulses list ZEF without zer with zer th L electrica	RO PULSE to pulse S o pulse Z POWEI al interface) 5 28 V ELEC oly 5/28 V MAGNE	R SUPPLY 5 V DC 5 7 DC 5/28 TRICAL IN pu in - output R T ACTUAT( 1,5 / 2 / 3 /	ITERFACE ish-pull P e driver L S-422 RS DR BORE D (3/8") I I	IAMETER mm 6 mm 8 mm 9,52 mm 10 ENCLOSUR MA	E RATING IP 64 X IP 67 S X ROTATIO 1000 Cable (sta after DIREC	N SPEED 0 rpm 10 0UTI ndard lengt M12 conne	PUT TYPE h 0,5 m) P eg. PR5) cctor M12 code DIRECT	I <mark>ON TYPE</mark> axial A radial R	VARIANT



85-2020

## MAGNETIC INCREMENTAL ENCODERS | EMI 55 A



UL / CSA | certificate n. E212495 <sup>1</sup> as measured at the transducer without cable influences

<sup>2</sup> for further details refer to OUTPUT LEVELS on TECHNICAL BASICS section

<sup>3</sup> measured on the transducer flange

<sup>4</sup> condensation not allowed

## CONNECTIONS

Function	Cable P	Cable L / RS	5 pin M12 P	8 pin M12 L / RS	
+V DC	red	red	2	7	
0 V	black	black	4	1	
A+	green	green	3	6	
A-	/	brown or grey	/	5	
B+	yellow	yellow	1	4	
В-	/	orange	/	3	
Z+	blue	blue	5	2	
Z-	/	white	/	8	
÷	shield	shield	housing	housing	

RESOLUTIONS

Operating temperature<sup>3, 4</sup>

Storage temperature<sup>4</sup>

Magnet actuator

(to get best electrical

performances)

mounting tolerances

Weight

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

150 g (5,29 oz)

 $\pm$  0.2 mm (axial)

 $\pm$  0,1 mm (radial)

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

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

-40°... +125°C (-40° ... +257°F)



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