

EMI 63 A / D

MAGNETIC INCREMENTAL SOLID SHAFT ENCODER



Specifications

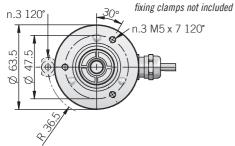
Thanks to the magnetic technology, the EMI 63 series is suitable for harsh environment applications such as marble and glass working machines, washing systems, metal working machines and all the applications where high temperature resistance is required.

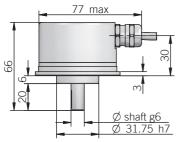
- · 3 channel encoder (A / B / Z) up to 2048 ppr
- · Power supply up to +28 VDC with several electronic interfaces available
- · Up to 300 kHz output frequency
- · Cable or M12 connector output, other connectors available on cable end
- · Solid shaft diameter up to 10 mm
- · Mounting by synchronous or centering 2,5" square flange
- · Sturdy construction due to separated chambers design
- · Wide operating temperature -25° ... +100°C (-13° ... +212°F)

ORDERING CODE	EMI	63A	1024	Z	5	L	10	X	6	P	R	. XXX
ORDERING CODE	SERIES magnetic incremental encoder series EMI synchronous flange ø 31,75 centering square flange ø 31,75	MODEL mm 63A mm 63D RES ppr from 2 pulses at v (with L	SOLUTION 2 to 2048 vailability ZEF without zer with zer electronic c interface	RO PULSE So pulse So pulse Z POWEF interface): 8 24 V 5 28 V	R SUPPLY 5 V DC 5 DC 8/24 DC 5/28 TRONIC IN pu ted (AEIC- lin	sh-pull P 7272) PC e driver L S-422 RS SHAFT D 9,52 (3/5	IAMETER 8") mm 9 mm 10 ENCLOSUR		N SPEED 00 rpm 3 00 rpm 6 00 rpm 6	PUT TYPE	R	. XXX
			female	connector	r included,	without fo			M12 conne	ector M12 nt code		
										DIRECT	axial A radial R	
										(custom vei	VARIANT rsion XXX



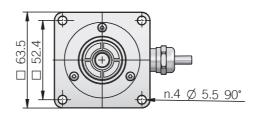
EMI 63 A

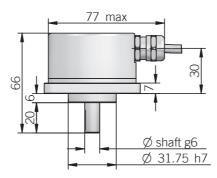




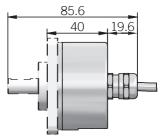
dimensions in mm

EMI 63 D





Dimensions with axial output



ELECTRI	CAL	PROIL	ICATIONS
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ELLOTHIONE OF LOTTION				
Resolution	from 2 to 2048 ppr			
Power supply	5 = 4,5 5,5 V DC 5/28 = 4,75 29,4 V DC 8/24 = 7,6 25,2 V DC (reverse polarity protection)			
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 (shaft 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

GUNNECTIONS				
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	
<u></u>	shield	housing	housing	

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



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



MECHANICAL SPECIFICATIONS

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Shaft diameter	ø 9,52 (3/8") / 10 mm				
Enclosure rating	X = IP 64 (IEC 60529) S = IP 66 (IEC 60529)				
Max rotation speed	3000 rpm (IP 66) 6000 rpm (IP 64)				
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				
Starting torque (at +20°C / +68°F)	< 0,01 Nm (IP 64) < 0,08 Nm (IP 66)				
Body material	EN-AW 2011 aluminum				
Shaft material	1.4305 / AISI 303 stainless steel				
Housing material	EN-AW 2011 aluminum				
Bearings	2 ball bearings				
Bearing lifetime	10° revolutions				
Operating temperature	-25° +100°C (-13° +212°F)				
Storage temperature	-25° +85°C (-13° +185°F)				
Weight	350 g (12,35 oz)				

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

ACCESSORIES

set n.3 fixing clamps for model 63 A P/N 94080001

