





MAIN FEATURES

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)









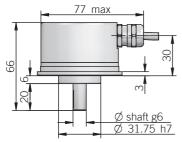
ORDERING CODE	EMI	63A	1024	Z	5	L	10	X	6	P	R	. XXX
	SERIES magnetic incremental encoder series EMI synchronous flange ø 31,75 centering square flange ø 31,75	MODEL mm 63A mm 63D										
	see table for	ppr from 2 pulses av	<i>ailability</i> ZER vithout zer	o pulse Z								
	(with L or PC		interface	interface)) 8 24 V 5 28 V	DC 8/24 DC 5/28 FRONIC IN	sh-pull P						
		р		lly 5/28 V -	lin	e driver L S-422 RS SHAFT D 9,52 (3/3	IAMETER 3") mm 9 mm 10	F PATING				
IP 64 X IP 66 S												
			female	connector	included,	without fe			OUTI ard length M12 conne 2 as varia	ector M12 nt code DIRECTI	ON TYPE axial A radial R	



VARIANT custom version XXX

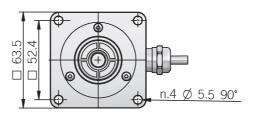
EMI 63 A

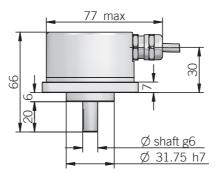
n.3 120° fixing clamps not included n.3 M5 x 7 120°



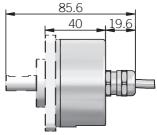
dimensions in mm

EMI 63 D





Dimensions with axial output



FIFCTRICAL SPECIFICATI	UNIC

LLLUTKIONL 31 LUIT TONTTON3			
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

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
<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

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	ration 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	s 2 ball bearings		
Bearing lifetime	e 10° revolutions		
Operating temperature	re -25° +100°C (-13° +212°F)		
Storage temperature	ature -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

