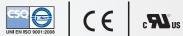




MAIN FEATURES

Thanks to the magnetic technology, EMI 40 series is suitable for harsh environment applications such as marble and glass working machines, washing systems and generally for industrial automation.

- · 3 channel encoder (A / B / Z) up to 2048 ppr
- · Power supply up to +28 VDC with several electronic interfaces available
- · Cable output, connector available on cable end
- · Compact dimensions
- · Solid shaft diameter up to 6 mm
- · Sturdy construction due to separated chambers design
- · Wide operating temperature -25° ... +100°C (-13° ... +212°F)









ORDERING CODE	EMI	40A	1024	Z	5	L	6	Х	3	P	R	. XXX
ORDERING CODE	SERIES magnetic incremental encoder series EMI clamping flange ø 20	MODEL mm 40A RES ppr from 2 r pulses at	SOLUTION 2 to 2048 vailability ZEF without zer with zer electronic c interface	RO PULSE o pulse S o pulse S POWEF interface) 2) 8 24 V 5 28 V	R SUPPLY 5 V DC 5 7 DC 8/24 7 DC 5/28 TRONIC IN pu ted (AEIC-	sh-pull P 7272) PC e driver L SHAFT D		E RATING IP 64 X		P	R	. XXX
								IP 66 S X ROTATIO (IP 66) 30 (IP 64) 60				
									OUT	PUT TYPE n 0,5 m) P	ION TYPE	
										DIKEGI	axial A radial R	
												VARIANT

custom version XXX

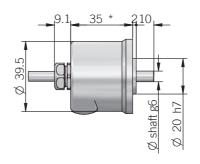
EMI 40 A radial cable output

n.4 M3 x 6 90° 48.6 Ø shaft g6 h7 n.3 M3 x 6 120° 20 Ø

dimensions in mm

Dimensions with axial cable output

* IP66 + 7mm



ELECTRICAL SPECIFICATIONS				
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)			
Current consumption without load				
Max load current	t 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

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

CONNECTIONS		
Function	Cable output Push-pull	Cable output Line driver
+V DC	red	red
0 V	black	black
Ch. A	green	green
Ch. A-	1	brown
Ch. B	yellow	yellow
Ch. B-	/	orange
Ch. Z	blue	blue
Ch. Z-	/	white
<u></u>	shield	shield

MECHANICAL SPECIFICATIONS				
Shaft diameter	ø4/6 mm			
Enclosure rating	X = IP 64 (IEC 60529) S = IP 66 (IEC 60529)			
Max rotation speed	3000 rpm (IP 66) 6000 rpm (IP 64)			
Max shaft load	5 N axial / radial			
Shock	ock 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)	< 0,02 Nm			
Body material	EN-AW 2011 aluminum			
Shaft material	1.4305 / AISI 303 stainless steel			
Housing material	painted aluminum			
Bearings	s 2 ball bearings			
Bearing lifetime	10° revolutions			
Operating temperature -25° +100°C (-13° +212°F)				
Storage temperature	-25° +85°C (-13° +185°F)			
Weight	150 g (5,29 oz)			

