

MAIN FEATURES

Thanks to the magnetic technology, the EMI 38 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
- · Blind hollow shaft diameter up to 10 mm with shaft fixing by collar clamping
- · Sturdy construction due to separated chambers design
- Wide operating temperature -25° ... +100°C (-13° ... +212°F)



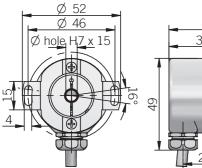
ORDERING CODE	EMI	38F	1024	Z	5	L	6	Х	6	PR	. XXX
magnetic incremental enco blind hollow shaft blind hollow shaft v	with stator coup vith antirotation	n pin 38G RES ppr from 2 <i>pulses a</i> v v (with L	vailability ZEF vithout zer with zer electronic c interface	RO PULSE ro pulse S ro pulse Z POWER interface) e) 8 24 V 5 28 V	R SUPPLY 5 V DC 5 / DC 8/24 / DC 5/28 TRONIC IN putted (AEIC-	ISh-pull P 7272) PC e driver L SHAFT I 9,52 (3/	DIAMETER mm 6 mm 8 8") mm 9 mm 10 ENCLOSUR	E RATING IP 64 X IP 66 S X ROTATIO (IP 66) 30 (IP 64) 60	DN SPEED 100 rpm 3 100 rpm 6 OUTI rd length (PUT TYPE),5 m) PR	VARIANT

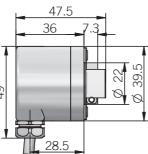


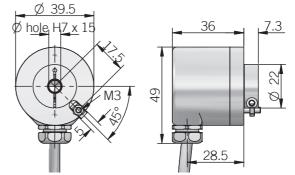


EMI 38 F

EMI 38 G







anti-rotation pin is included in model G, for mounting instruction please refer to product installation notes

dimensions in mm

ELECTRICAL SPECIFICATIONS

from 2 to 2048 ppr			
80 mA max			
15 mA / channel			
push-pull / line driver			
205 kHz			
A leads B clockwise (shaft view)			
\pm 0,35° typical / \pm 0,50° max			
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-	/	brown				
Ch. B	yellow	yellow				
Ch. B-	/	orange				
Ch. Z	blue	blue				
Ch. Z-	/	white				
<u>+</u>	shield	shield				

MECHANICAL SPECIFICATIONS				
Shaft diameter	ø 6* / 8* / 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)			
Max shaft load	5 N axial / radial			
Shock	50 G, 11 ms (IEC 60068-2-27)			
Vibration	10 G, 10 2000 Hz (IEC 60068-2-6)			
Moment of inertia	0,25 x 10 ⁻⁶ kgm ²			
Starting torque (at +20°C / +68°F)	< 0,02 Nm			
Fixing torque for collar clamping	0,6 Nm recommended			
Body material	EN-AW 2011 aluminum			
Shaft material	1.4305 / AISI 303 stainless steel			
Housing material	painted aluminum			
Bearings	2 ball bearings			
Bearing lifetime	10 ⁹ revolutions			
Operating temperature	-25° +100°C (-13° +212°F)			
Storage temperature	-25° +85°C (-13° +185°F)			
Weight	150 g (5,29 oz)			
* with sunnlied adapter shaft				

* with supplied adapter shaft



