

EMA - EMS 40 SINGLETURN ABSOLUTE MAGNETIC ENCODERS







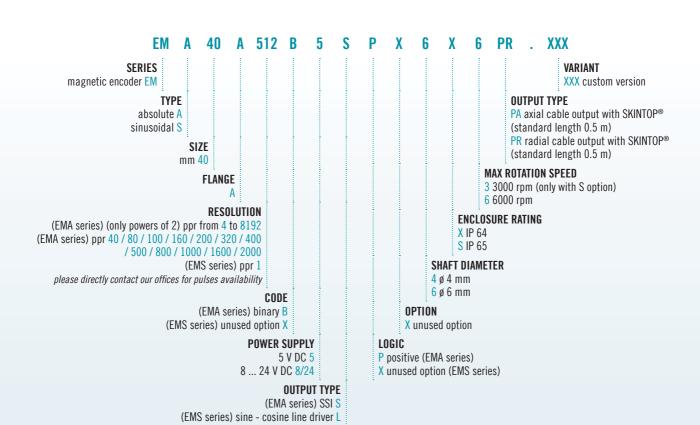
MAIN FEATURES

Thanks to the magnetic technology, EMA - EMS 40 is suitable for harsh environment applications such as marble and glass working machine, metal working machine, washing system and generally for industrial automation.

EMA - EMS 40 is available with SSI and analog output.

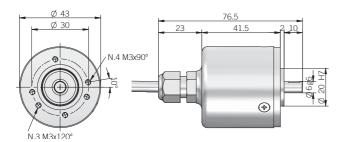


ORDERING CODE



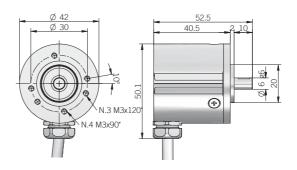
EMA - EMS 40

PA output



EMA - EMS 40

PR output



Electrical specifications		
Resolution	up to 8192 ppr (EMA series) 1 ppr (EMS series)	
Current consumption without load	100 mA max	
Max load current	15 mA per channel (EMS)	
Power supply	5 V DC ±10% 8 28 V DC ±5%	
Output types	RS422 SSI (EMA series) sine - cosine (EMS series)	
Max output frequency	1 MHz (EMA series) 1 KHz (EMS series)	
Monostable time (SSI)	10÷25 μs	
Counting direction	decreasing clockwise (shaft view)	
Accuracy	± 0.35° max	
Electromagnetic compatibility	IEC 61000-6-2 IEC 61000-6-3	

Mechanical specifications			
Bore diameter	4 / 6 mm		
Enclosure rating	IP 64 IP 65		
Max rotation speed	6000 rpm		
Shock	50 G, 11 ms (IEC 60068-2-27)		
Vibration	10 G, 10÷2000 Hz (IEC 60068-2-6)		
Body material	aluminum UNI 9002/5		
Shaft material	stainless steel UNI X10CrNiS1809		
Housing material	PA66 glass fiber reinforced		
Bearings	2 ball bearings		
Bearings life	10° revolution		
Operating temperature	-25° +100 °C		
Storage temperature	-25° +85 °C		
Weight	100 g		

Connections for EMA series				
Function	Wire colour	Connector M12 (8-pin)		
+ V dc	red	8		
0 Volt	black	5		
data +	green	3		
data -	brown	2		
clk +	yellow	4		
clk -	orange or pink	6		
÷	shield	1		

Connections for EMS series				
Function	Wire colour	Connector M12 (8-pin)		
+ V dc	red	8		
0 Volt	black	5		
sin +	green	3		
sin -	brown	2		
cos +	yellow	4		
COS -	orange or pink	6		
÷	shield	1		

Connector M12 (8-pin) (front view)



