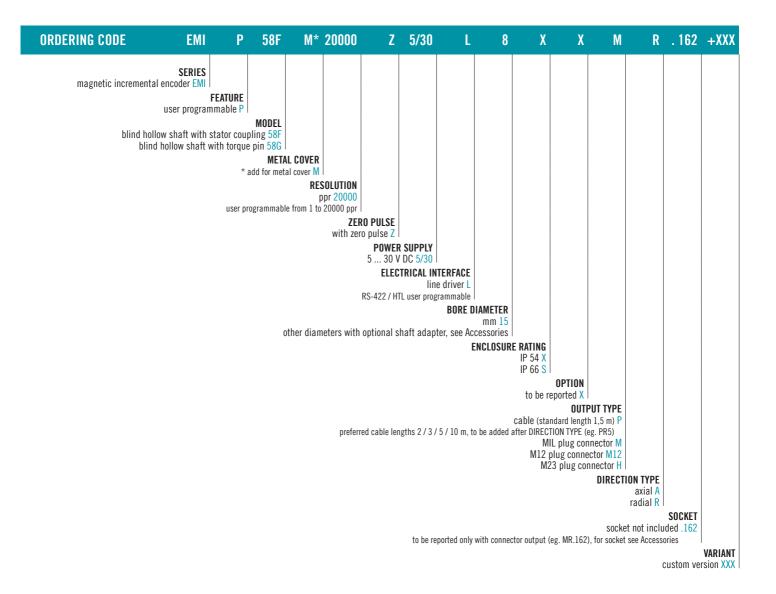


MAIN FEATURES

Hollow shaft encoder series for industrial applications with high mechanical resistance requirements. The proprietary state of the art magnetic sensor provides wide options (resolution, electrical output, index width) programmable by the end user.

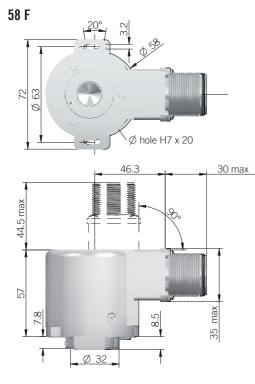
- · 3 channel encoder (A / B / Z) up to 20000 ppr
- Power supply up to +30 V DC with RS-422 or HTL as electrical interface
- Up to 800 kHz output frequency
- · Cable or connector output, available with metal cover for heavy duty applications
- Blind hollow shaft diameter up to 15 mm
- · Mounting by stator coupling or with torque pin

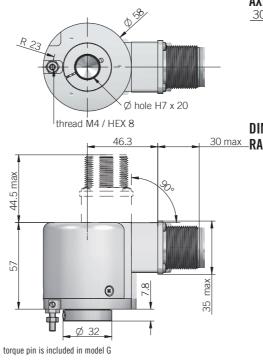










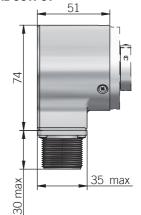


58 G

DIMENSIONS WITH METAL COVER AND AXIAL OUTPUT <u>30 max</u> 66 6 ٦



DIMENSIONS WITH METAL COVER AND 30 max RADIAL OUTPUT



ø 15 mm

X = IP 54

Moment of inertia 4 x 10⁻⁶ kgm² (95 x 10⁻⁶ lbft²)

Shock 50 G, 11 ms (IEC 60068-2-27)

n.2 ball bearings

350 g (12,35 oz)

IEC 60529 S = IP 66 Max rotation speed 6000 rpm

Shaft material stainless steel

Bearings life 10⁹ revolutions

Bearing stage material aluminum

ø 6* / 8* / 9,52 (3/8")* / 10* / 11* / 12*

10 G, 10 ... 2000 Hz (IEC 60068-2-6)

< 0,02 Nm (2,83 Ozin) with X enclosure rating

< 0,06 Nm (8,50 Ozin) with S enclosure rating

PA66 glass fiber reinforced / painted aluminum

-25° ... +100°C (-13° ... +212°F) -25° ... +85°C (-13° ... +185°F) with M12 connector

-25° ... +70°C (-13° ... +158°F)

450 g (15,87 oz) with metal cover

* with optional shaft adapter, please refer to Accessories

recommended mating shaft tolerance g6 dimensions in mm

ELECTRICAL SPECIFICATIO	DNS	MECHANICAL SPECIFICAT	
Resolution	user programmable from 1 to 20000 ppr default 1024 ppr	Bore diameter	
Power supply ¹	4,5 30 V DC (reverse polarity protection)		
Power draw without load	800 mW max	Enclosure rating	
Max load current	20 mA / channel		
Electrical interface ²	line driver RS-422 / HTL (AEIC-7272 or similar) user programmable / default RS-422	Max rotation speed Shock	
Max output frequency	800 kHz	Vibration	
	user programmable	Moment of inertia	
Counting direction	default A leads B clockwise (shaft view)	Starting torque (at +20°C / +68°F)	
Index length	user programmable default 180°e (gated A)	Bearing stage material	
Accuracy	± 0,10°	Shaft material	
Hysteresis	user programmable from 0° to 0,70°	Housing material	
	default 0,17°	Bearings	
Start-up time	500 ms	Bearings life	
Mean time to dangerous failure (MTTF ₄) ³	173 years	Operating temperature ^{3, 4} Storage temperature ⁴	
according to EN ISO 13849-1			
Mission time (Tm) ³	20 years	Weight	
Diagnostic coverage (DC) ³	0%		
Cable type	shielded - fixed installation conductors section 0,22 mm²/AWG 24 bending radius min 60 mm		
Electromagnetic compatibility	according to 2014/30/EU directive		
RoHS	according to 2011/65/EU directive		
	file n. E212495		

³ this product is not a safety component, for further details refer to TECHNICAL BASICS section

⁴ measured on the transducer flange

⁵ condensation not allowed

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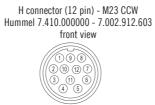
MAGNETIC INCREMENTAL ENCODERS | EMIP 58 F / G

CONNECTIONS						
Function	Cable	10 pin M	8 pin M12	12 pin H		
+V DC	red	D - E	7	12		
0 V	black	F	1	10		
A+	green	A	6	5		
A-	brown or grey	G	5	6		
B+	yellow	В	4	8		
В-	orange	Н	3	1		
Z+	blue	С	2	3		
Z-	white	I	8	4		
<u>+</u>	shield	J	housing ¹	9		

¹ only with metal cover

M connector (10 pin) Amphenol MS3102-E-18-1 front view

M12 connector (8 pin) M12 A coded front view





Eltra



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