

MB480 - SERIES



HEAVY DUTY INCREMENTAL ENCODER Ø 60 MM

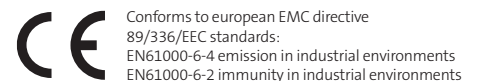
- 10-16 mm semi hollow shaft
- 10-16 mm full trough hollow shaft
- 1:10 max 17 mm conical shaft
- 10-25 mm solid shaft
- Enlarged ceramic, non conductive, sturdy bearings
- Short circuit and reversed polarity proof
- Dust and waterproof IP67

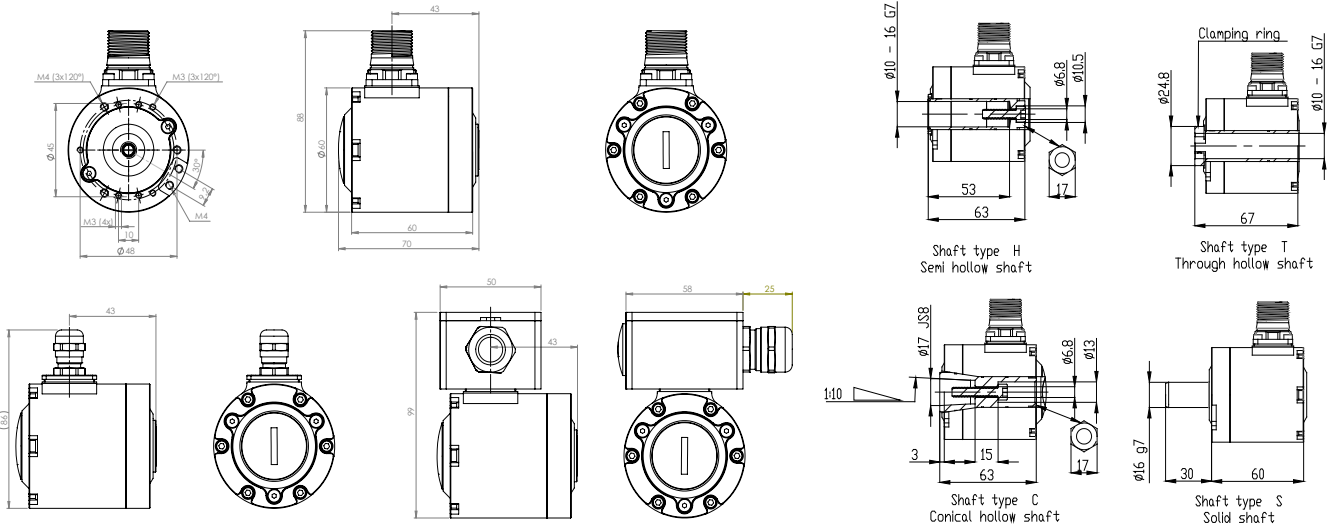
- Standard 7-35Vdc or 5Vdc Power Supply
 2 Square Wave Signals, 300kHz
 Marker Pulse, Inverted Signals

- Option Customization upon request



*Flexible and durable
encoder for demanding
applications*

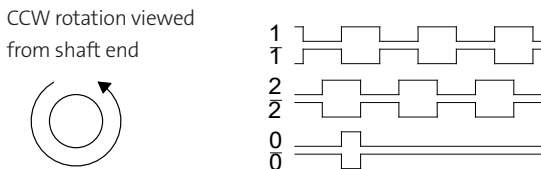




ELECTRICAL SPECIFICATION, STANDARD

Electronic option	H (HTL)	or	T (TTL)
Supply voltage	7–35 Vdc(SELV)	or	5Vdc
Current consumption	Max 40 mA without load		
Output circuit	Linedriver RS422A compatible		
Low level output volt.	Max <0,5 V at 20 mA load and 20°C		
High level output volt.	Min >Vcc-1V at 20mA load and 20°C		
Short circuit protected	Yes		
Polarity protected	Yes		
Transient protected	Yes		
Max load	70 mA		

OUTPUT SIGNALS, STANDARD



SIGNAL ACCURACY

Dividing error max	$\pm 50 \text{ el}^\circ$
Channel separation	$90 \pm 25 \text{ el}^\circ$
Max frequency	300 kHz
Operating temperature	-40° to +80°C

MECHANICAL SPECIFICATION

Housing	Aluminum, electrically conductive for increased interference protection	
Sealing	IP67 dust and waterproof	
Bearings	Ceramic, non conductive	
Bearing load at	1 000 rpm:	
Radial	600 N	Gives 50 000 hrs bearing life
Axial	275 N	
Max rpm	9 000 rpm	
Vibration	20 g 22-2000 Hz	
Chock	100 g at 11 ms	
Weight	approx. 610 g. (without cable)	

Accredited testing according to standard:

IEC 60068-2-6	2008	Sine
IEC 60068-2-27	2008	Shock

CONNECTIONS

A	Radial M23 Male Connector, CCW
B	Radial cable, 5m 8x0,25 TP/PUR with screen
C	Terminal box with cable gland for $\phi 6$ - $\phi 12$ mm

FUNCTIONS

	A	B	C
1	5	Yellow	4
2	8	Green	6
0	3	Brown	8
1 inv.	6	Grey	5
2 inv.	1	White	7
0 inv.	4	Pink	9
+V	12	Red	1
0V	10	Blue	2
+V sense	2	-	-
0V sense	11	-	-
Gnd	Chassi	Screen	Chassi

SHAFT TYPE

H = Semi hollow Shaft	T = Through hollow Shaft
C = Conical hollow Shaft	S = Solid Shaft

ORDERING CODE

Model	MB480- A A -H1024-H16
Material (Aluminium)	
Connection type	
Electrical option	
Pulserate 1024	
Shaft type	
Shaft diameter	



Skogsvägen 1, SE-645 34 Strängnäs, Sweden
 Tel: +46 152 33 11 90 Fax: +46 152 33 11 91
 E-mail: info@emetaencoders.com
 www.emetaencoders.com