

MB480 - SERIES



HEAVY DUTY INCREMENTAL ENCODER Ø 60 MM

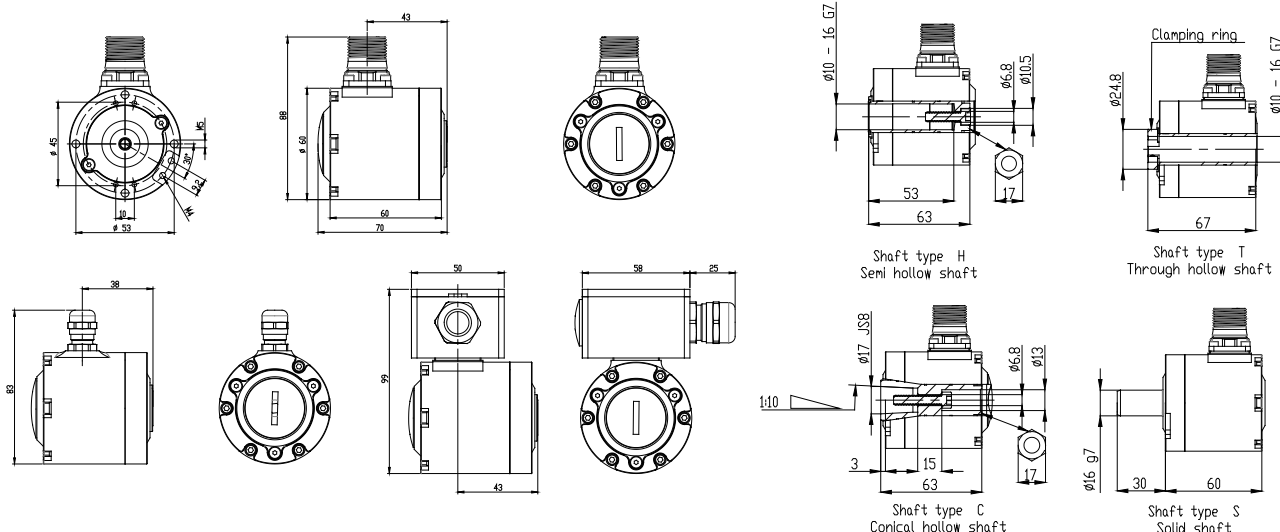
- 10-17 mm semi hollow shaft
- 10-16 mm full trough hollow shaft
- 1:10 max 17 mm conical shaft
- 10-25 mm solid shaft
- Enlarged ceramic, non conductive, sturdy bearings
- Short circuit and reversed polarity proof
- Dust and waterproof IP67
- Standard 7-35Vdc or 5Vdc Power Supply
 2 Square Wave Signals, 300kHz
 Marker Pulse, Inverted Signals
- Option Customization upon request



*Flexible and durable
encoder for demanding
applications*



Conforms to european EMC directive 89/336/EEC
standards:
EN61000-6-4 emission in industrial environments,
EN61000-6-2 immunity in industrial environ-

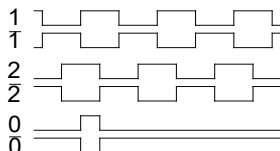


ELECTRICAL SPECIFICATION, STANDARD

Electronic option	H (HTL)	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

CCW rotation viewed
from shaft end



SIGNAL ACCURACY

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

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

CONNECTION

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

FUNCTION

	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
0 V	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 - AA - H1024 - H16

Material (Aluminium)

Connection type

Electrical option

Pulserate 1024

Shaft type

Shaft diameter



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