

MA246 - SERIES



HEAVY DUTY INCREMENTAL ENCODER Ø 58 MM

Encoder with synchroflange, rotation stop, 3 mountingholes M4

- Ø 58 mm
- 10, 12 or 14 mm full through shaft
- Enlarged sturdy bearings
- Short circuit and reversed polarity proof
- Dust and splash proof IP65
- Standard 5V Power Supply, 300KHz
 2 Square Wave Signals
 Marker Pulse, Inverted Signals and Sense
- Options Customization upon request

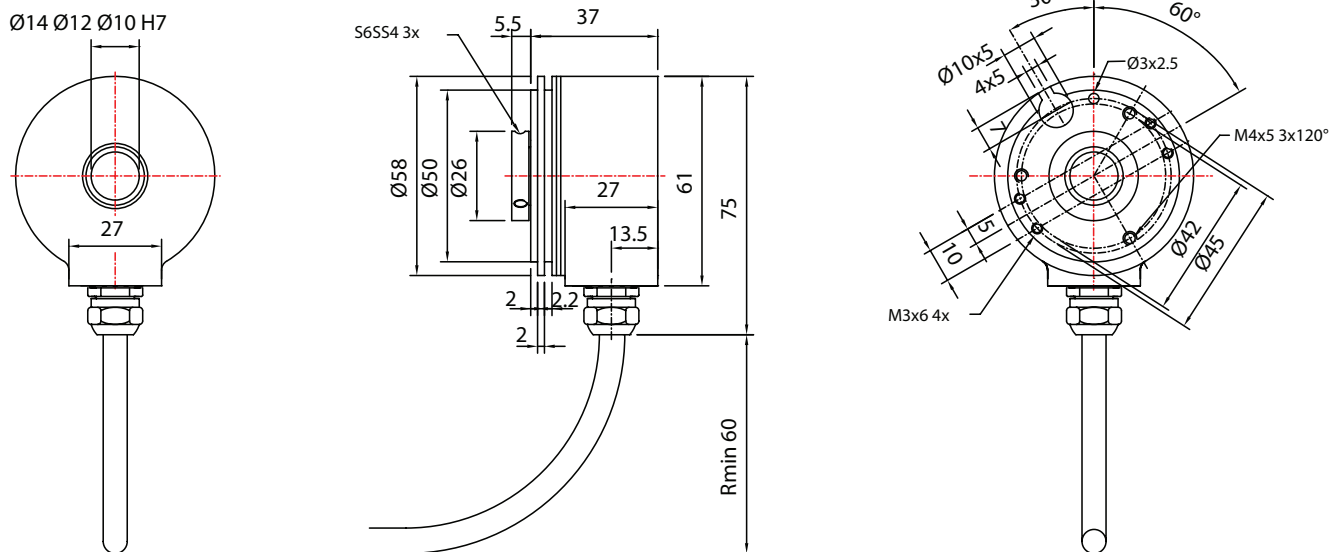
The logo for emeta encoders, featuring a stylized blue wave icon to the left of the company name 'emeta encoders' in a bold, sans-serif font.

*Flexible and durable
encoder for demanding
applications*

 **CE** File E342441



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

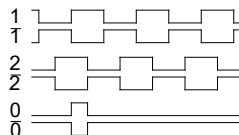


ELECTRICAL SPECIFICATION, STANDARD

Supply voltage	Vcc 5V
Current consumption	Typical 20 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	±50 el°
Channel separation	90 ±25 el°
Max frequency	300 KHz
Operating temperature	-40° till +80°C

MECHANICAL SPECIFICATION

Housing	Aluminum, electrically conductive for increased interference protection
Sealing	IP65 dust and splash proof
Bearings	Permanently greased
Bearing load at 1 000 rpm:	
Radial	110 N Gives 50 000 h. bearing life
Axial	70 N
Max rpm	6 000 (12 000)
Vibration	20g 20-2000 Hz
Chock	200g at 11 ms
Weight	approx. 240 g. (without cable)

CONNECTIONS

20. Radial cable, 1 m 10x0,25TPUR with screen
40. Radial 12-pin male connector CON-FM12P
80. Radial cable 1 m with male connector CON-CF12P

FUNCTION

	2X	40	80
1	Brown	5	5
2	Grey	8	8
0	Red	3	3
1 inv.	Green	6	6
2 inv.	Yellow	1	1
0 inv.	Black	4	4
+V	Brown/Green	12	12
0 V	White/Green	10	10
+V sense	Blue	2	2
0V sense	White	11	11
Gnd	Screen	Chassi	9

MATING CONNECTORS

For 40, CON-CF12S female mating connector
For 80, CON-CM12S female mating connector

ORDERING CODE

	MA246	10	1000	2	X
Model					
Shaft 10, 12, 14mm					
Pulse rate 1-2 500					
Connection					
X= meter cable					

Rev. 10-11, Specifications in this datasheet is subject to change without prior notice.