

## MA240 - SERIES



### HEAVY DUTY INCREMENTAL ENCODER Ø 58 MM

*Encoder with synchro flange, rotation stop, 3 mounting holes M4*

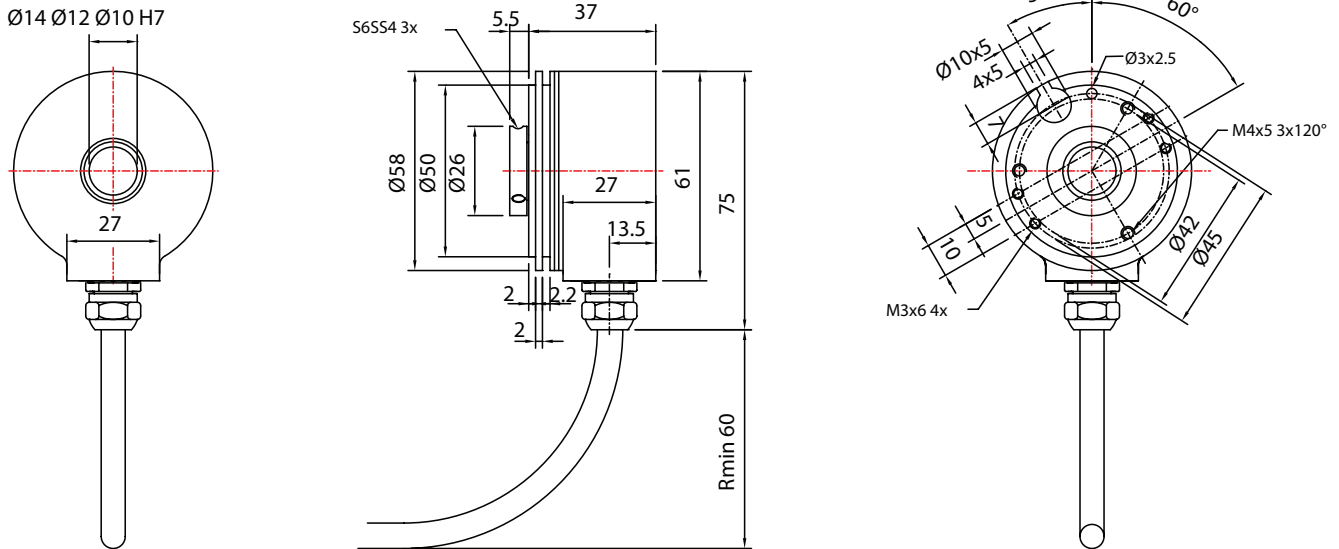
- Ø 58 mm
- 10, 12 or 14 mm full through shaft
- Enlarged sturdy bearings
- Short circuit and reversed polarity proof
- Dust and splash proof IP65
- Standard      5-30V Power Supply, 300kHz  
                     2 Square Wave Signals  
                     Marker Pulse, Inverted Signals and Sense
- 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-

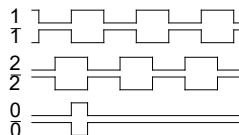


## ELECTRICAL SPECIFICATION, STANDARD

Supply voltage	Vcc 5–30 V
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	± 50 el°
Channel separation	90 ± 25 el°
Max frequency	300 kHz
Operating temperature	-40° to +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 hrs 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)

## CONNECTION

- 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
- 48. Radial 8-pin male M12 connector

## FUNCTION

	Cable 2X	40	80	48
<b>1</b>	Brown	5	5	4-Yellow
<b>2</b>	Grey	8	8	3-Green
<b>0</b>	Red	3	3	2-Brown
<b>1 inv.</b>	Green	6	6	5-Grey
<b>2 inv.</b>	Yellow	1	1	1-White
<b>0 inv.</b>	Black	4	4	6-Pink
<b>+V</b>	Brown/Green	12	12	8-Red
<b>0 V</b>	White/Green	10	10	7-Blue
<b>+V sense</b>	Blue	2	2	-
<b>0V sense</b>	White	11	11	-
<b>Gnd</b>	Screen	Chassi	9	Chassi

## MATING CONNECTORS

- For 40, CON-CF12S female mating connector
- For 80, CON-CM12S female mating connector
- For 48, 8-pin female M12 mating connector with 3m cable

## ORDERING CODE

Model	MA240	10	1000	2	X
Shaft 10, 12, 14 mm					
Pulserate 1-4096					
Connection					
X= Meter cable					

