



MA126

HEAVY DUTY INCREMENTAL ENCODER Ø 58 MM

Encoder with Ø 36mm round flange and 3 mounting holes M4

- Ø 58 mm
- 8 mm solid shaft without face or 10 mm with face
- 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
- Option Customization upon request

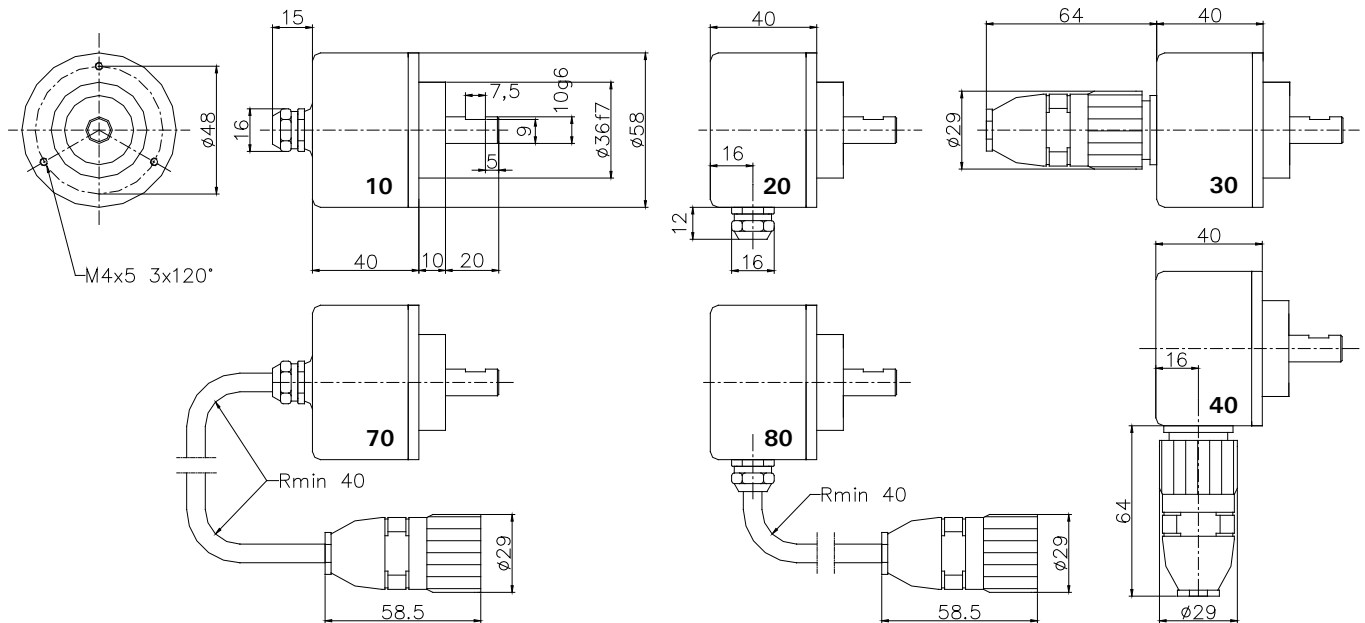


*Flexible and durable
encoder for demanding
applications*



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

INCREMENTAL ENCODER MODEL MA126

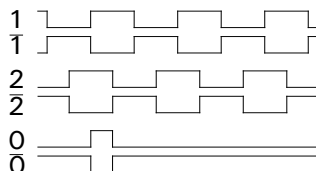
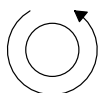


ELECTRICAL SPECIFICATION, STANDARD

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	180 N Gives 50 000 hrs
Axial	130 N bearing life
Max rpm	6 000 (12 000)
Vibration	20g 20-2000 Hz
Chock	200g vid 11 ms
Weight	ca: 275 gr (without cable)

CONNECTIONS

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

FUNCTIONS

	Cable	Connector	Cable/Conn
1	Brown	5	5
2	Grey	8	8
0	Red	3	3
1 inv	Green	6	6
2 inv	Pink	1	1
0 inv	Black	4	4
+V	Brown/Green	12	12
0 V	White/Green	10	10
+V sens	Blue	2	2
0V sens	White	11	11
Gnd	Shield	Chassi	9

MATING CONNECTORS

- For 30 and 40, CON-CF12S
- For 70 and 80, CON-CM12S

ORDERING KEY

Model	MA126	10	2048	10	X
Shaft 8 or 10 mm					
Pulse rate 1-5 000					
Connection					
X= meter cable					



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ELECTRICAL VERSIONS

5 - 30 V

OPTION A

Supply voltage	Vcc 5–30 V
Current consumption	Max 40 mA without load
Output circuit	Linedriver, RS422A compatible
Low level output voltage	Max <0,5 V at 20 mA load and 20°C
High level output voltage	Min >Vcc -1V at 20mA load and 20°C
Short circuit protected	Yes
Polarity protected	Yes
Transient protected	Yes
Max load	70 mA

5 V

OPTION B

Supply voltage	Vcc 5 V
Current consumption	Typical 20 mA without load
Output circuit	Linedriver, RS422A compatible
Low level output voltage	Max < 0,5 V at 20 mA load and 20°C
High level output voltage	Min > Vcc -1V at 20mA load and 20°C
Short circuit protected	Yes
Polarity protected	Yes
Transient protected	Yes
Max load	70 mA

5 - 30 V

NPN OPEN COLLECTOR OPTION C

Supply voltage	Vcc 5–30 VDC
Current consumption	Max 50 mA without load
Output circuit	NPN Open Collector Linedriver
Low level output voltage	Max <0,5 VDC at 20 mA load and 20°C
High level output voltage	Max <30 VDC at 20mA load and 20°C
Short circuit protected	Yes
Polarity protected	Yes
Transient protected	Yes
Max load	70 mA

7 - 35 V

NO MARKER PULSE OPTION D

Supply voltage	Vcc 7–35 V
Current consumption	Max 40 mA without load
Output circuit	HTL
Low level output voltage	Max <0,5 V at 20 mA load and 20°C
High level output voltage	Min >Vcc -2V at 20mA load and 20°C
Short circuit protected	Yes
Polarity protected	Yes
Transient protected	Yes
Max load	70 mA

