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MEM/MEM-V

DESCRIPTION

- SSI serial or push pull parallel output
- Different configurations available
- Metal case
- Series MEM single & multiturn (30 µs typical monoflop time)
- Series MEM-V singleturn (16 µs typical monoflop time)
- High resolution, Binary or Gray code



MECHANICAL VERSIONS

MEM520/MEM520V	MEM540/MEM540V	MEM620/MEM620V	MEM410/MEM410V	MEM450/MEM450V
Ø 58 mm round flange	Ø 58 mm round flange	63.5x63.5 mm square flange	Hollow shaft for motor shaft	Hollow shaft for motor shaft
Servo coupling	Ø 36 mm centering mask	Ø 31.75 mm centering mask	coupling	coupling
Ø 50 mm centering mask	3 M4 holes 120° on Ø48 mm	Shaft Ø 6, 8, 9.52 or 10 mm	Hole Ø 8, 10, 12, 14 or 15 mm	Hole Ø 8, 10, 12, 14 or 15 mm
Shaft Ø 6, 8, 9.52 or 10 mm	Shaft Ø 6, 8, 9.52 or 10 mm		Antirotational fixing	Fxing by elastic support
<i>Synchro flange</i>	<i>Clamping flange</i>			

MECHANICAL & ENVIRONMENTAL SPECIFICATION

TYPE MEM/MEM-V	520/540/620	520/540/620
Weight	400 g ca.	400 g ca.
Materials: case shaft	aluminium stainless steel	aluminium stainless steel
Shaft/Hollow shaft diameter	6, 8, 9.52 or 10 mm	8, 10, 12, 14, 15 mm
Revolutions/minute		6000
Starting torque		≤ 0.8 Ncm
Inertia		≤ 25 g cm ²
Max. load		80 N axial / 1000 N radial
Shock resistance (11 ms)		50 G
Vibrations resistance (10÷2000 Hz)		100 m/sec ²
Protection degree		IP65, optional IP66 (version K)
Operating temperature		-30 ÷ +70°C
Stocking temperature		-30 ÷ +85°C

ELECTRICAL & OPERATING SPECIFICATION

Resolution	5 ÷ 13 bit (32÷8192 info/rev.)
Steps/revolution	2÷15 bit (4÷32768)
Code	Binary or Gray
Output signals	SSI serial (RS422) Push pull parallel
Supply voltage	5 ÷ 28 Vdc Protection against polarity reversal
Power consumption	1.2 W
I max parallel outputs	50 mA
SSI Clock max. frequency	1 MHz
Accuracy	±1/2 LSB
Interference immunity	EN 61000-6-2
Emitted interference	EN 61000-6-4
Connections	axial or radial cable 1 m lg or axial/radial 12-pin M23 connector

PUSH PULL PARALLEL OUTPUT

SIGNALS	CABLE COLOURS	16-PIN M23 CONNECTOR*
BIT 1 (LSB)	Black	PIN 3
BIT 2	Brown	PIN 4
BIT 3	Red	PIN 5
BIT 4	Grey/Pink	PIN 6
BIT 5	Yellow	PIN 7
BIT 6	Green	PIN 8
BIT 7	Red/Blue	PIN 9
BIT 8	Purple	PIN 10

SIGNALS	CABLE COLOURS	16-PIN M23 CONNECTOR*
BIT 9	Grey	PIN 11
BIT 10	White/Green	PIN 12
BIT 11	Brown/Green	PIN 13
BIT 12	White/Yellow	PIN 14
BIT 13 (MSB)	Yellow/Brown	PIN 15
UP/DOWN	White/Grey	PIN 16
0V	Blue	PIN 1
+ Vdc	Purple	PIN 2

* M23 connector: 12 pin for resolution up to 8 bit –16 pin for resolution 9 to 13 bit

INPUT & OUTPUT SIGNALS

SSI SERIAL OUTPUT

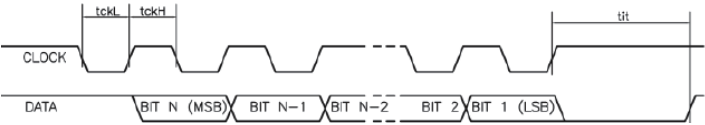
SIGNALS	CABLE COLOURS	12-PIN M23 CONNECTOR*
Clock-	Brown	PIN 1
Clock+	White	PIN 2
Data+	Green	PIN 3
Data-	Yellow	PIN 4
Reset	Pink	PIN 5
Up/Down	Grey	PIN 6
0V	Blue	PIN 12
+Vdc	Red	PIN 11

* M23 connector; 12 pin

PNP COUNT RESET INPUT

Applying a high logic level to this input (5÷28 Vdc) resets the position data.

SSI INTERFACE SIGNALS



MSB: Most Significant Bit
LSB: Less Significant Bit
tckL: 0.5 µs min.
tckH: 0.5 µs max
Encoder MEM = tit: 30 µs typical
Encoder MEM-V = tit: 16 µs typical

(tit: when the tit time lag expires the encoder considers the interrogation ended)

The output code is increasing with shaft rotating clockwise (shaft side sight).

UP/DOWN INPUT

Applying a low logic level to this input (0 V) sets the output code decreasing with the shaft rotating clockwise.

ORDERING INFORMATION

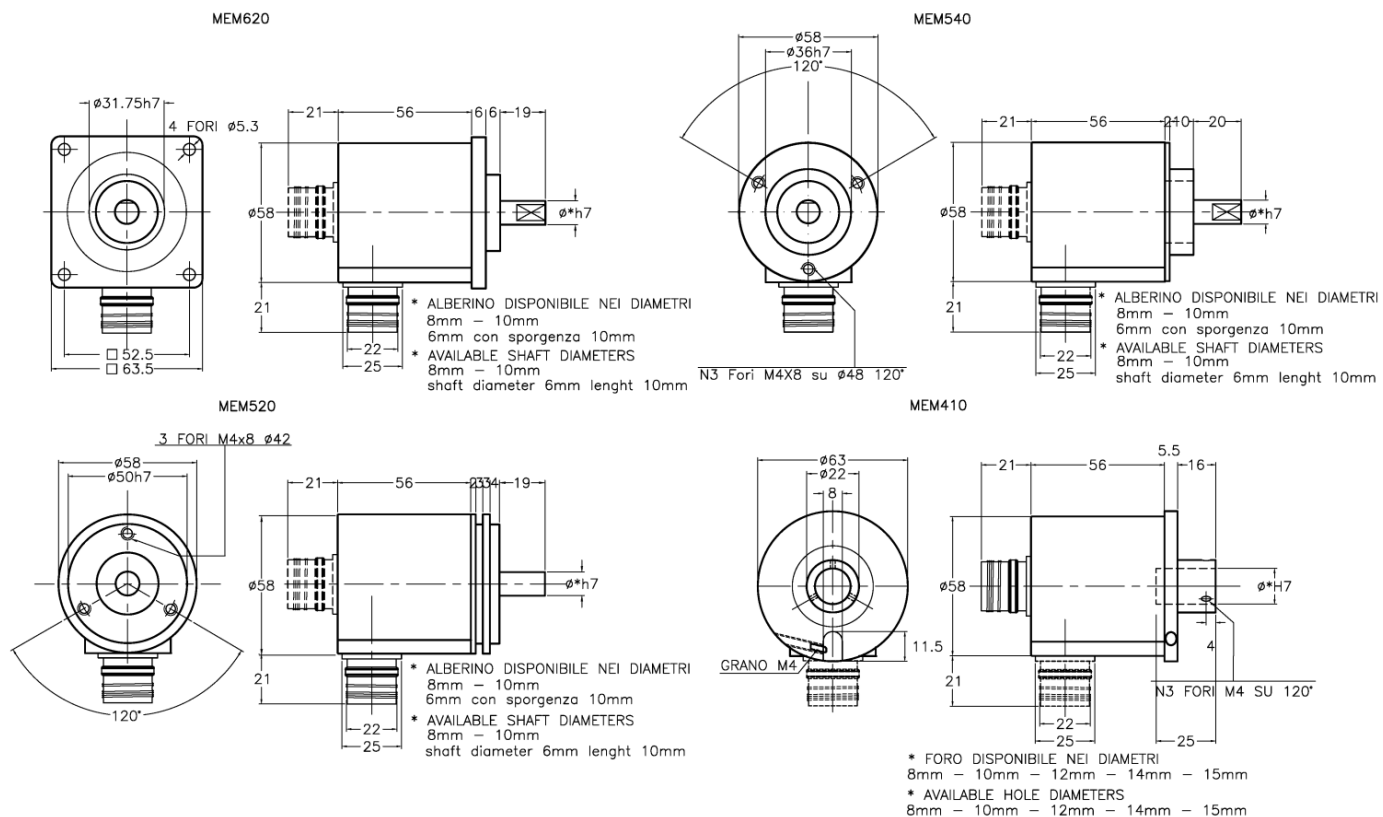
MEM520	-	13	15B	5/28	A	8	SSI
							OUTPUT SIGNALS SSI = SSI Serial PP = Push-pull parallel
							SHAFT DIAMETER/HOLLOW SHAFT Shaft 6 – 8 – 9.52 – 10 mm Hollow shaft 8 – 10 – 12- 14 – 15 mm
							CONNECTIONS OUTLET A axial /R radial Standard: M23 connector Cable 1 m lg.on request
							SUPPLY 5÷28 Vdc
							RESOLUTION/REVOLUTION 00 single turn / 4÷15 bit B Binary code/ G Gray code
							RESOLUTION/REVOLUTION 5÷13 bit
							MECHANICAL PECULIARITIES (Optional Field) - = Standard version C = Cable Outlet K = Sealing O-ring
							TYPE MEM520 – MEM540 - MEM520V – MEM540V Round flange MEM620 – MEM620V Square flange MEM410 – MEM450 – MEM410V – MEM450V Hollow shaft



DIMENSIONS

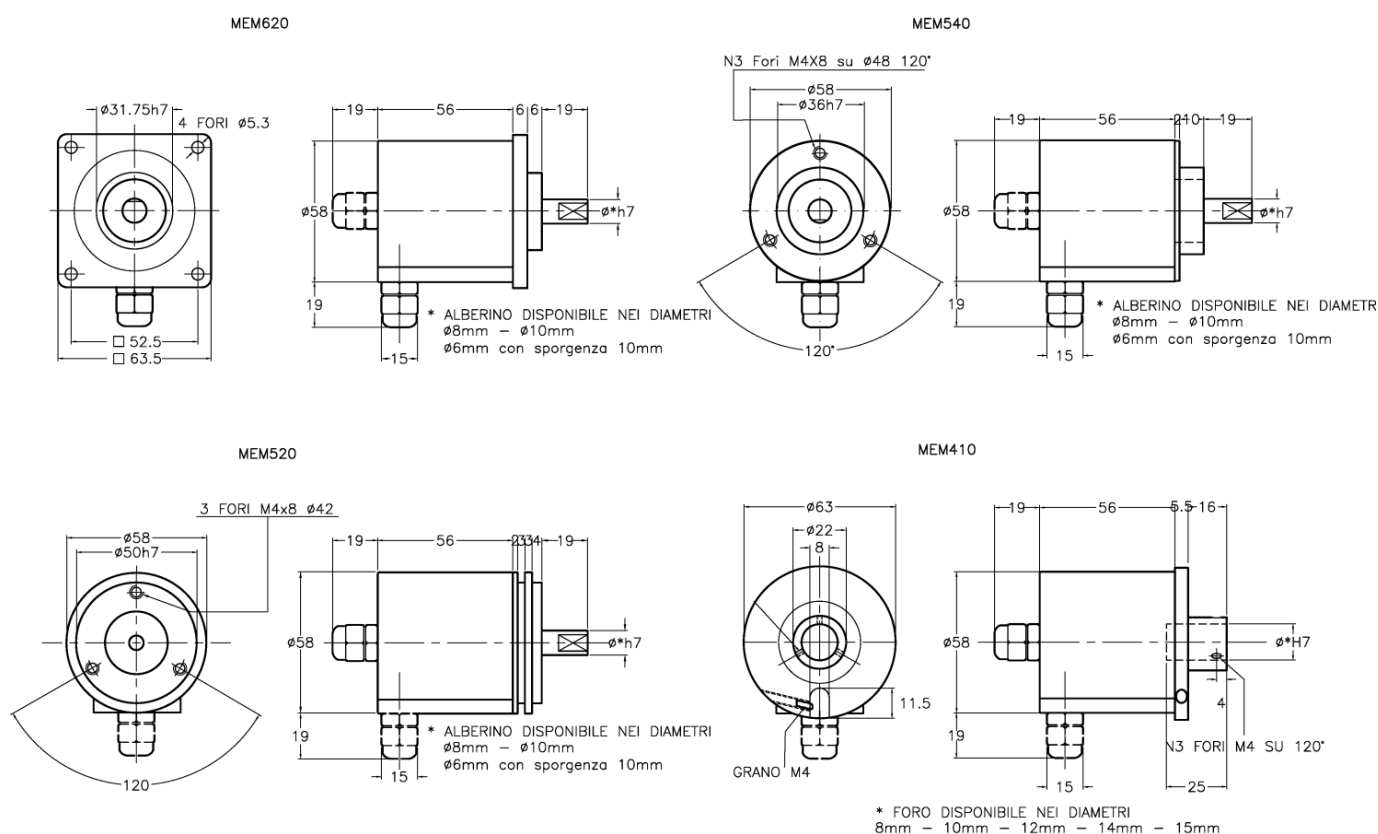
Connector Outlet

Rif.M1386



Cable Outlet

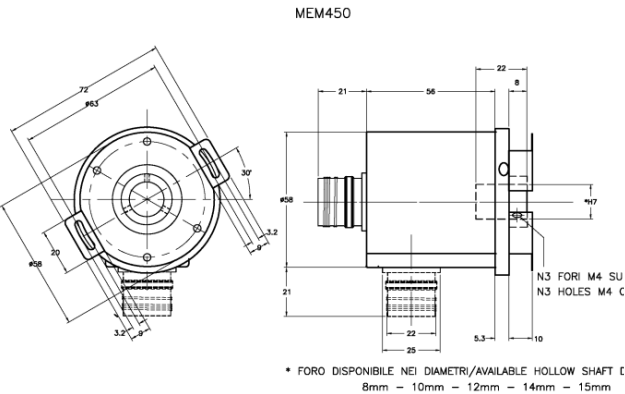
Rif.M1385



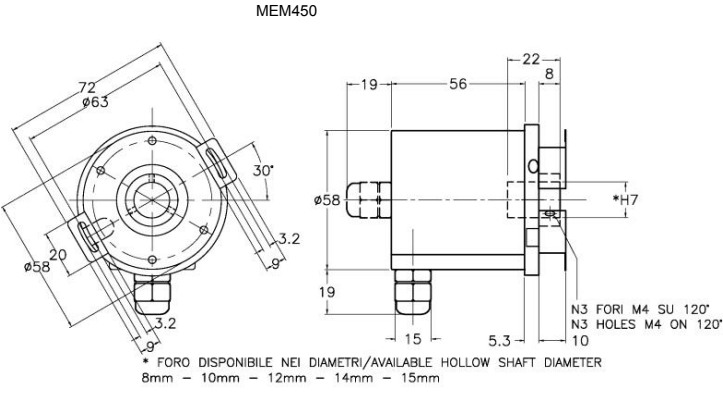
DIMENSIONS

Connector Outlet

Cable Outlet



Rif.M2110



Rif. M2045

