Series MM

Series TM

Absolute mechanic multiturn shaft encoder 24bit (ø65-ø90mm)

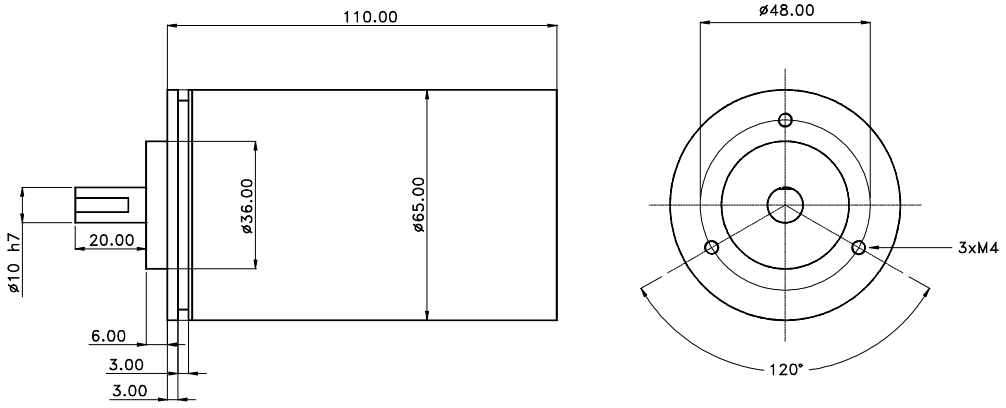
Utilise a very modern technology; a particular code-reading method allows to eliminate every mechanic action of gears to assure a real absolute value of the recording. Furthermore it permits to choose the code and the increment direction having in basic configuration as gray code as binary code as up/down discriminate.

Mechanics Data

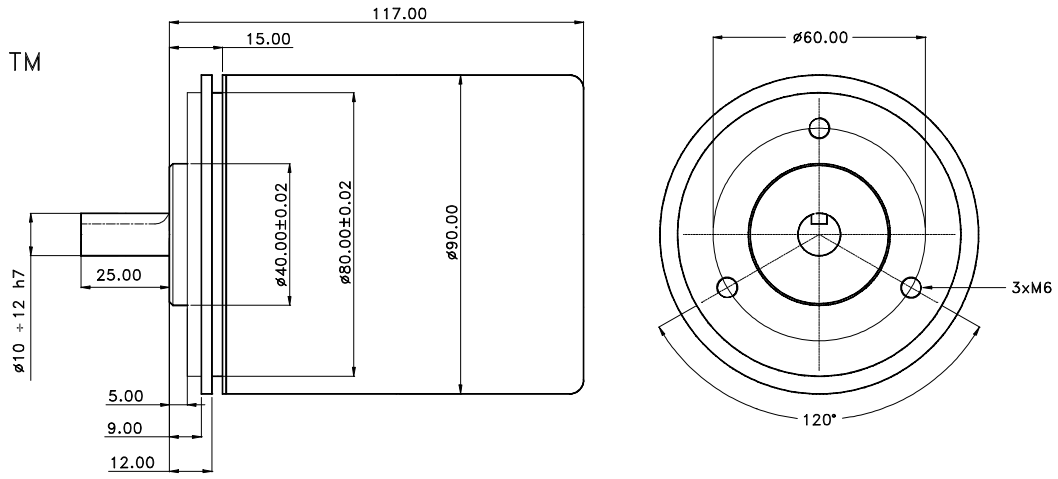
Cover:	Aluminium
Body:	Aluminium
Solid shaft:	Stainless steel
Bearings:	2, ballraces
Weight:	Approx.500gr. (TM 800gr)
Protection:	IP65
Rpm:	3000 Max
Torque:	5Ncm
Inertia:	100gcm² (270gcm² TM)
Shaft loading:	Axial 50N - Radial 50N

Dimensions in mm.

Serie MM



Serie TM



Series MM
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Electronics Data

Power supply:	from 5 to 24V depends on the electronics circuit
Current consumption:	150/300mA depends on the electronics circuit
Permissible load:	20mA
Frequency:	10KHz (standard in LSB)
Protections:	Against short circuit, reversal polarity
Operating Temp.:	0/+60°C

Ordering code

Series | M M / T M | * * * * * * * | / | ***Pulses*** (Max 4096) | ***Turn*** (Max 4096)

See page pulses

Shaft

1 = Ø 10mm
2 = Ø 12mm

Outputs

1 = Push-Pull 11/24V
2 = TTL 5V

Connections

1 = 9444 Axial
2 = 9444 Radial

Options

0 = None
P = Parity (even and odd)
L = Latch
T = Tristate (only TTL)
Z = Zero settings

Connector 9444	**0 Volt**	**+ Volt**	**0**	**1**	**2**	**3**	**4**	**5**	**6**	**7**	**8**	**9**	**10**
	P1	P2	P3	P4	P5	P6	P7	P8	P9	P10	P11	P12	P13
	11	**12**	**13**	**14**	**15**	**16**	**17**	**18**	**19**	**20**	**21**	**22**	**23**
	P14	P15	P16	P17	P18	P19	P20	P21	P22	P23	P24	P25	P26

GRAY BINARY	**UP DOWN**	**PARITY EVEN**	**PARITY ODD**	**LATCH**	**TRI-STATE**	**STROBE**
P38	P39	P40	P41	P42	P43	P44

Encoder inputs are internally connected to logical “ONE”.

Standard configuration:
- Output code GRAY
- increase (UP) clockwise
- High impedance output (TRI-STATE active)
- LATCH deactivate

Connecting input to logical “ZERO” the configuration change:
- Output code binary ;
- Decrease (UP) anticlockwise;
- True output (TRI-STATE) deactivate;
- LATCH active