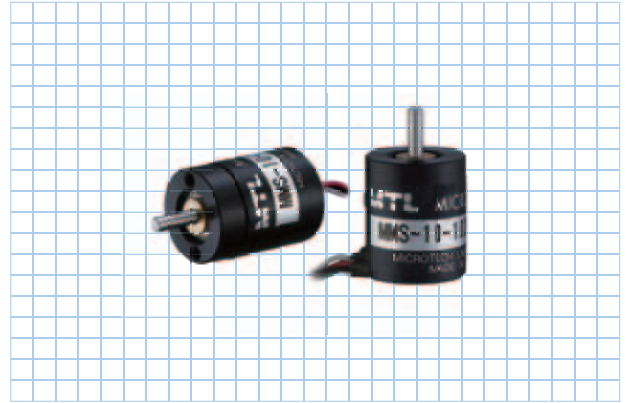


MMS-10 series

[Absolute]

- Magnetic encoder with external dimensions $\phi 13\text{mm} \times \text{height } 15.5\text{mm}$
- Resolution 1024, SSI interface



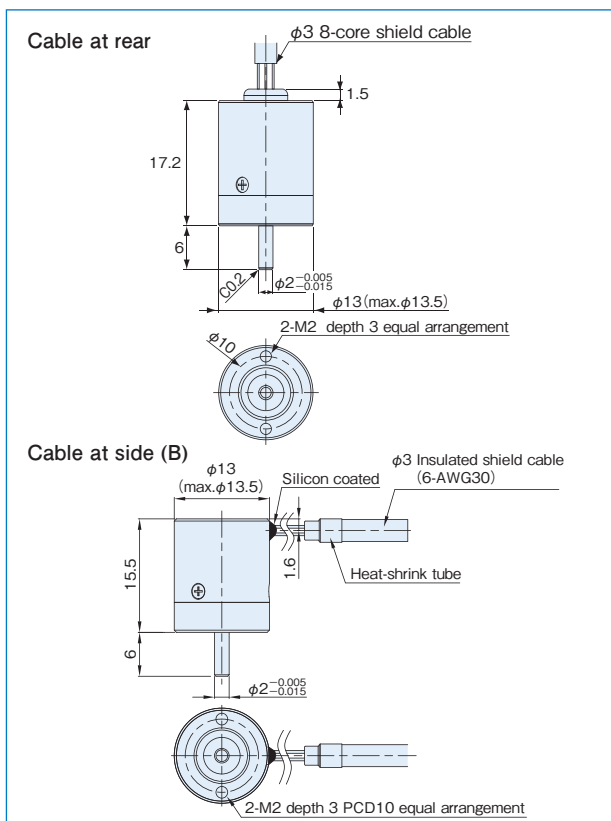
Encoder Specifications

Item	Type name	MMS-10- <input type="text"/> G1 <input type="text"/>
		Pulse number Cable
Supply voltage		DC5V $\pm 5\%$
Current consumption		50mA or less (under no load)
Resolution		256(8bit) 360, 512(9bit) 1,024(10bit)
Allowable revolutions		6000r/min
Allowable load of shaft (electrical)	Radial	1.9N(200gf)
	Thrust	1.9N(200gf)
Working temperature/humidity		$-10^{\circ}\text{C} \sim +70^{\circ}\text{C} / \text{RH}35\% \sim 90\%$
Storage temperature		$-20^{\circ}\text{C} \sim +100^{\circ}\text{C}$
Vibration resistance		Durability 55Hz, double amplitude 1.5mm 2 hours each in X, Y, and Z directions
Impact resistance		Durability 500m/s^2 (about 50G) 3 times each in X, Y, and Z directions
Cable		Outside diameter $\phi 3$ 6-core Insulated shield cable AWG30 (length 1m)
Mass		40g

Connection

Cable color	Encoder connection	Cable color	Encoder connection
Red	5V $\pm 5\%$	Green	CLOCK
Black	0V(COMMON)	Blue	/CLOCK
White	DATA		
Brown	/DATA		
Shield			

Encoder Outside dimensions



Decoder specifications (37 \times 37 PCB)

Item	Type name	DECODER- $\triangle\triangle$ bit
Supply voltage		DC5V $\pm 5\%$
Current consumption		60mA or less (110mA or less including encoder)
Parallel data update cycle		60 μs (16.7kHz)
Output circuit		NPN open collector output (when using parallel output)
Output capacity		Sink current 20mA max. Load voltage 35Vmax. Residual voltage 0.4V or less
Logic		Negative logic (H=0, L=1)
Connection		Power supply and parallel signal output by P=2.54 header pins (see diagram below)

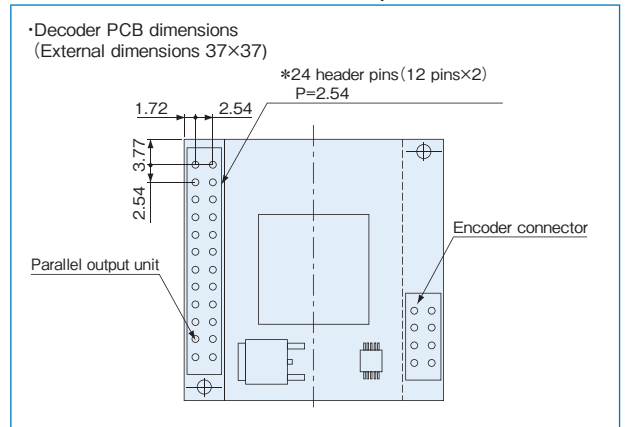
$\triangle\triangle \dots 8, 9, 10$ (corresponding to the encoder resolution)

Connection diagram

Decoder board TH No.

TH No.	Parallel output / Power	TH No.	Parallel output / Power
1	5V $\pm 5\%$	8	Output 2 ⁴
2	0V(COMMON)	9	Output 2 ³
3	Output 2 ⁹	10	Output 2 ²
4	Output 2 ⁸	11	Output 2 ¹
5	Output 2 ⁷	12	Output 2 ⁰
6	Output 2 ⁶	13~24	NC
7	Output 2 ⁵		

Decoder Outside dimensions (Option)



I/O circuit diagram

