

# 17-Bit Absolute Encoder

**NEW**

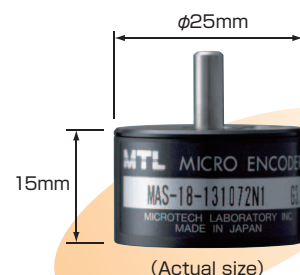


**MAS-18-131072N1**



## 17-Bit Absolute Encoder MAS-18-131072N1

- Outside dimension:  $\phi 25\text{mm}$
- Height: 15mm
- Resolution: 131072
- SSI interface



# MAS-18 series

[Absolute]

- Outside dimension:  $\Phi 25\text{mm} \times \text{Height: } 15\text{mm}$   
17-Bit absolute encoder
- Resolution: 131072, SSI interface

**NEW**



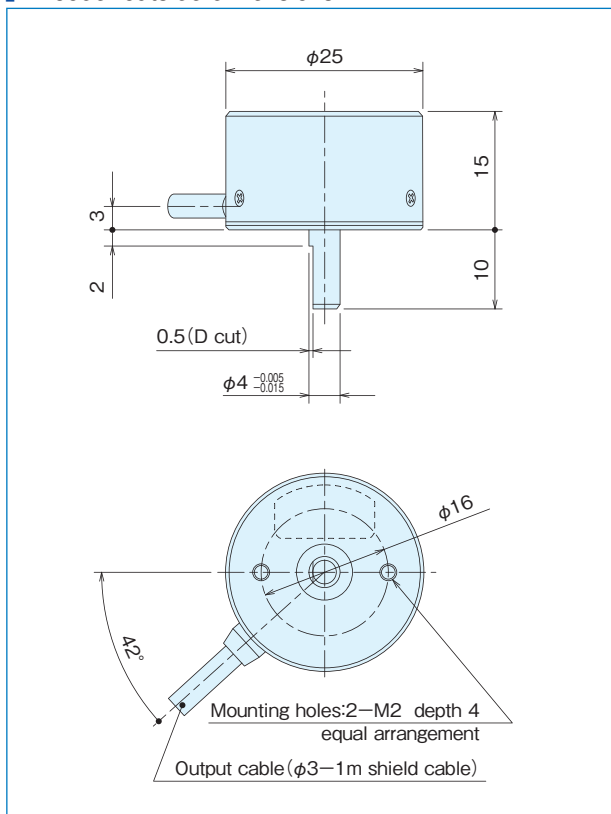
## Encoder specifications

Item	Type name	MAS-18-131072N1
Supply voltage		DC5V $\pm 5\%$
Current consumption		80mA or less (under no load)
Resolution		131072, 65536, 32768
Allowable revolutions		6000rpm
Allowable load of shaft (electrical)	Radial	1.9N(200gf)
	Thrust	1.9N(200gf)
Working temperature/humidity		$-10^{\circ}\text{C} \sim +70^{\circ}\text{C}$ / RH35% $\sim 90\%$
Storage temperature		$-20^{\circ}\text{C} \sim +80^{\circ}\text{C}$
Vibration resistance		Durability 55Hz, double amplitude 1.5mm 2 hours each in X, Y, and Z directions
Impact resistance		Durability $500\text{m/s}^2$ (about 50G) 3 times each in X, Y, and Z directions
Cable		Outside diameter $\phi 3$ —8-core vinyl wire Insulated shield cable AWG30(length 1m)
Mass		40g

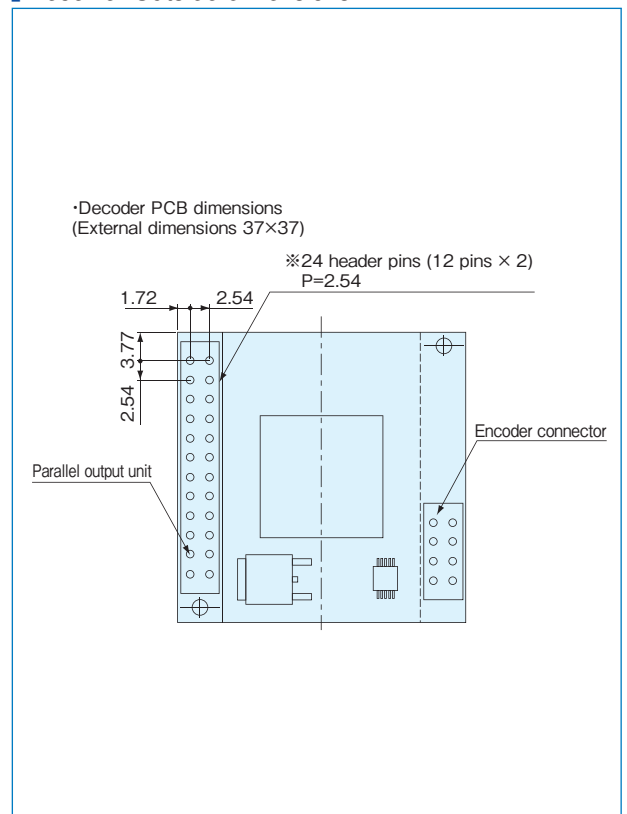
## Receiver Specifications (■37×37 PCB)

Item	Type name	MMS-DECODER
Supply voltage		DC5V $\pm 5\%$
Current consumption		60mA or less (140mA or less including encoder)
Parallel data update cycle		$60\mu\text{s}$ (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)

## Encoder outside dimensions



## Receiver Outside dimensions



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