

MAS-36-MT series

[Electronic multi-revolution absolute encoder]

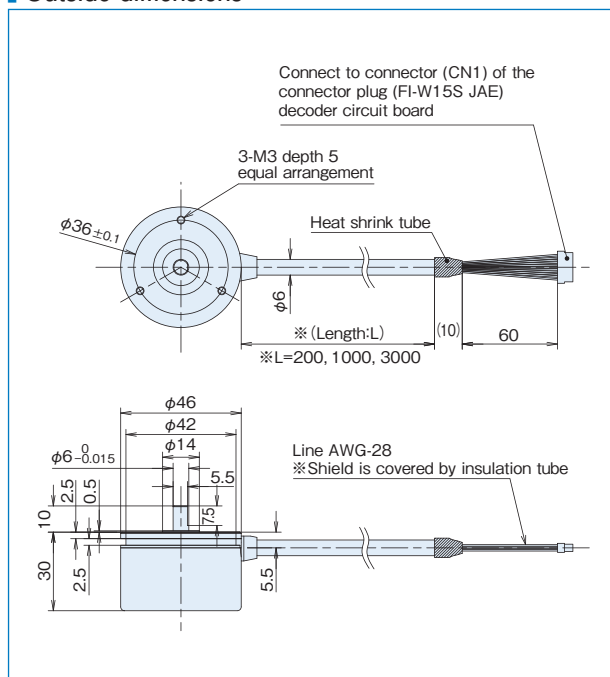
- Outside dimensions $\phi 46 \times 30\text{mm}$
- Resolution: 1000 \times 256



Specifications

Item	Type name	MAS-36-1000MT-S
Supply voltage		DC5V $\pm 5\%$, ripple (p-p) 5% or less
Current consumption		100mA or less (under no load)
Resolution		Single-revolution part 1,000 divisions/ Multi-revolution part -128 to 127 revolutions Allowable shaft rotation angle when power supply is cut off $\pm 80^\circ$
Alarm output		Counter overflow output
Output		Serial output (pure binary code, Positive logic)
Output circuit		Line driver output (RS485 compliant)
Response speed		25kHz (1500rpm)
Allowable load of shaft (electrical)	Radial	19.6N (2kg)
	Thrust	9.8N (1kg)
Working temperature/humidity		$-10^\circ\text{C} \sim +70^\circ\text{C}$ / RH35% \sim 90%
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 $\phi 6$ 16-core connector Insulated shield cable AWG28 (length 200mm)
Mass		300g or less

Outside dimensions



Decoder specifications (60 \times 60 PCB)

Item	Type name	MA-36-MT-DECODER
Supply voltage		DC12V $-10\% \sim 24\text{V} +15\%$
Current consumption		150mA or less (including encoder, stepless output load)
Output		Single-revolution absolute parallel data (ABS 0-9) Multi-revolution absolute parallel data (TKN 0-7) Counter overflow alarm (COF)
Absolute data output code		Pure binary code, Negative logic (H=0, L=1)
Input		Single-revolution absolute data reset input (ARST) Multi-revolution absolute data reset input (TRST) (100ms or less, 1mA or less)
Absolute signal update cycle		3 μs typ. (333kHz)
Output circuit		NPN open collector output
Output capacity		Sink current 20mA or less Load voltage 30V or less Residual voltage 0.4V or less
Connection		Outside diameter $\phi 6$ 16-core vinyl wire Insulated shield cable (length 1.5m)

Decoder Outside dimensions (Option)

