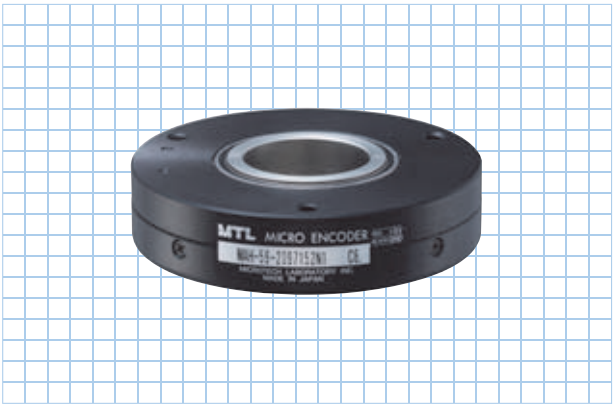
MAH-59 series

[Absolute]

- Outside dimensions ϕ70×16.5mm
  21bit absolute encoder
- Resolution:2097152, SSI interface, Hollow shaft ϕ25



Specifications

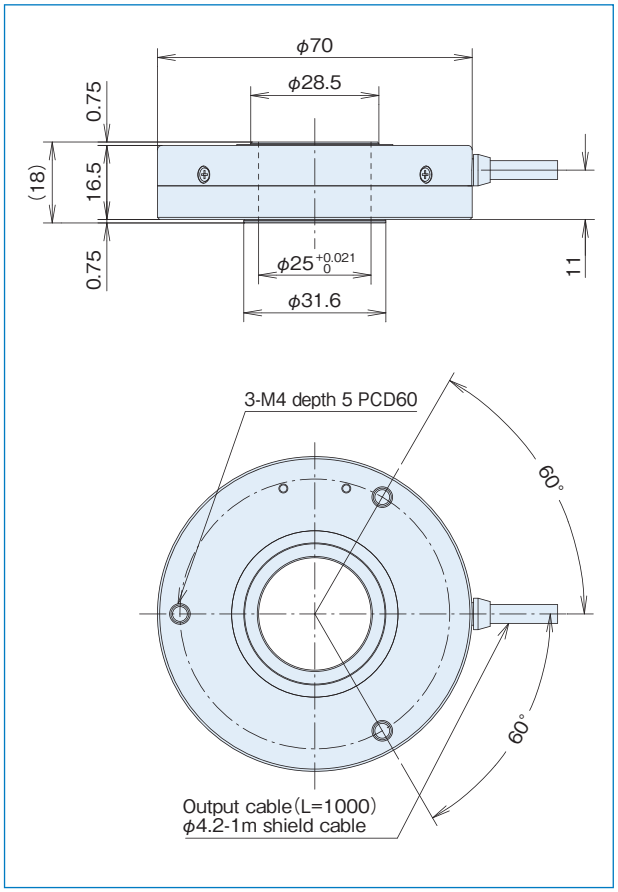
Item \ Type name		MAH−59−□N1
Supply voltage		DC5V ±5%
Current consumption		100mA or less (under no load)
Resolution		2,097,152 (21bit), 1,048,576 (20bit), 524,288 (19bit)
Allowable rotation		1000rpm
Allowable load of shaft (electrical)	Radial	9.8N (1.0kg)
	Thrust	4.9N (0.5kg)
Working temperature/ humidity		−10°C～+70°C／RH35%～90%
Storage temperature		−20°C～+80°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 ϕ4.2 7-core vinyl wire Insulated shield cable AWG28 (length 1m)
Mass		200g
Communication method		RS-422 Communication (four-wire) SSI Format

Decoder specifications (37×37 PCB)

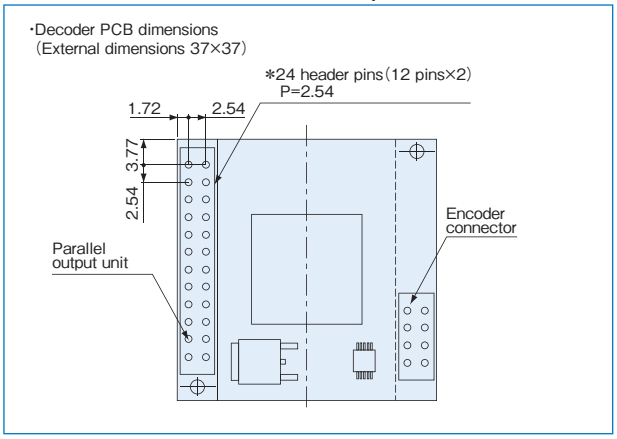
Item \ Type name	DECODER−△△bit
Supply voltage	DC5V ±5%
Current consumption	60mA or less (110mA or less including encoder)
Parallel data update cycle	60μs (16.7kHz)
Output circuit	NPN open collector output (when using parallel output)
Output capacity	Sink current 20mA or less Load voltage 35V or less 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)

△△…19, 20 (corresponding to the encoder resolution)

Outside dimensions



Decoder Outside dimensions (Option)



Spring flange MEH-60 (Option)