

# MAH-85 series

[Absolute]

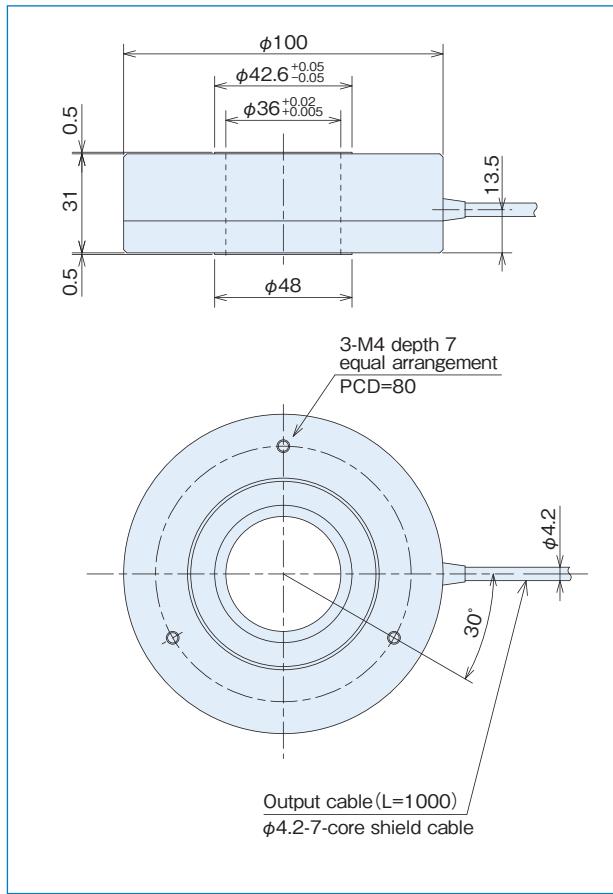
- Outside dimensions  $\phi 100 \times 31$  mm  
21bit absolute encoder
- Resolution:2097152, SSI interface, Hollow shaft  $\phi 36$



## Specifications

Item	Type name	MAH-85-2097152N1
Supply voltage	DC5V -5%~24V+10%	(At the edge of encoder cable)
Current consumption	250mA or less(under no load)	
Resolution	2097152, 1048576, 524288, 262144	
Allowable rotation	1000r/min	
Allowable load of shaft (electrical)	Radial	4.9N(0.5kg)
	Thrust	4.9N(0.5kg)
Working temperature/humidity	0°C~+60°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 <sup>2</sup> (about 50G) 3 times each in X, Y, and Z directions	
Cable	Outside diameter $\phi 4.2$ 7-core vinyl wire Insulated shield cable AWG28 (length 1m)	
Mass	700g	
Communication method	RS-422 Communication (four-wire) SSI Format	

## Outside dimensions

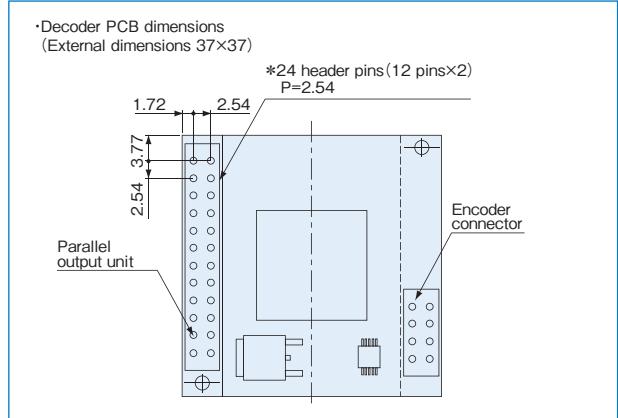


## Decoder specifications (37×37 PCB)

Item	Type name	DECODER-△△bit
Supply voltage	DC5V ±5%	
Current consumption	60mA or less (310mA or less including encoder)	
Parallel data update cycle	60μs(16.7kHz)	
Output circuit	NPN open collector output (when using parallel output)	
	Sink current 20mA or less	
Output capacity	Load voltage 35V or less	
	Residual voltage 0.4V or less (sink current 10mA)	
Logic	Negative logic (H=0, L=1)	
Connection	Power supply and parallel signal output by P=2.54 header pins (see diagram below)	

△△···18, 19, 20 (corresponding to the encoder resolution)

## Decoder Outside dimensions (Option)



## Spring flange MEH-85 (Option)

