

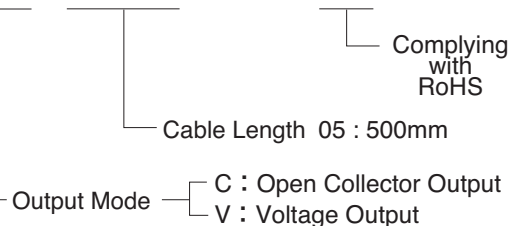
Gear Sensor

PA-M12



Model

PA-M12--05-00E



Mechanical and Electrical characteristics		Outline and Environmental characteristics					
Sensing method	Differential magnetic sensor	Wiring characteristics	Wire color	Red	White	Black	Shield
Reference Tooth gear	Module 1.0~1.5 t=4.0mm or more low carbon steel		Signal	Vcc	Signal	0V	N.C
Air gap	1±0.5mm (gear ⇄ face of sensor)recommended value:1.0mm*		Conductor: AWG 28				
Supply Voltage	Open Collector	DC 5 to 30V (Ripple 10% or less(P-P))	Main material				
	Voltage Output	DC 5 to 16V (Ripple 10% or less(P-P))	SUS304(screw), PPS(tip)				
Current consumption(Unloaded)	DC30mA Max (without sink current)		Checking LED(RED)	Signal High : Dark lighting			
Sink current	40mA Max			Signal Low : Bright lighting			
Output Voltage	[H] : (Vcc-1.1V)or more (unloaded, at 25°C)(Voltage Output only)		Operating temperature	-20°C~+85°C			
	[L] : 0.4V or less (Vcc 16V, sink current 40mA, at 25°C)		Storage temperature	-25°C~+85°C			
Pull-up resister	2.2kΩ±5%(*Voltage Output only)		Humidity	RH 85% Max No Condensation			
Response speed	12000P/Sec Max		Vibration	10~55Hz/1mm (X,Y,Z each 1.5 hours)			
Output waveform	25~75%(H/(H+L)×100)Square wave		Shock	490m/s ² ,11ms (X,Y,Z each 10 times)			
Maximum output voltage	DC 30V		Ingress Protection	IP67			

* It's different depending on a used module and the material of the gear.

* Please refer to the latest specifications.

