

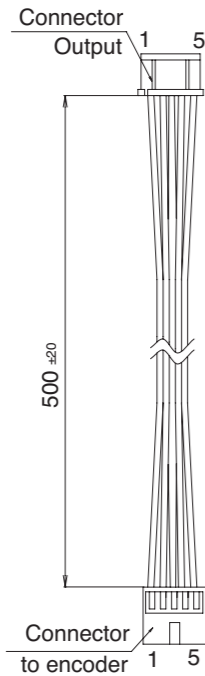
Extension cable for OD18mm type and OD38mm type

R-G41581-02

Model
**18S,18M
(2MC)**

1. Wire
UL2651 5x28AWG (7/0.13)
2. Connector to encoder
DF3-5EP-2C [hirose]
3. Output Connector
DF3-5S-2C [hirose]
4. Wiring specifications

Pin No.	Color	Signal
1	Brown	VCC
2	Red	0V
3	Orange	Sig. A
4	Yellow	Sig. B
5	Green	Sig. Z

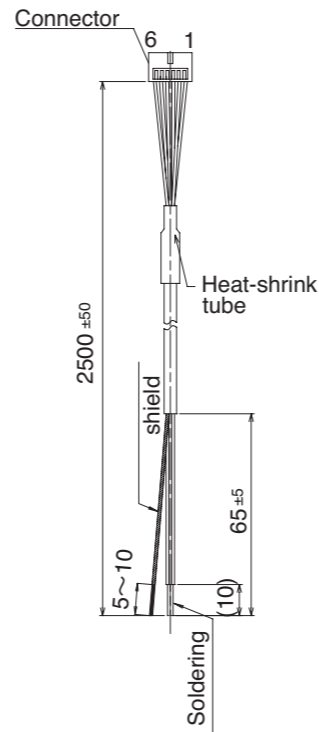


R-G41584-02

Model
**38S,38H
(2MC·2MT)**

1. Cable
UL2103 5CxAWG28 (7/0.127)
2. Connector
DF3-6EP-2C [hirose]
3. Wiring specifications

Pin No.	Color	Signal
1	Red	VCC
2	Black	0V
3	Blue	Sig. A
4	White	Sig. B
5	Yellow	Sig. Z
6	Shield	Shield

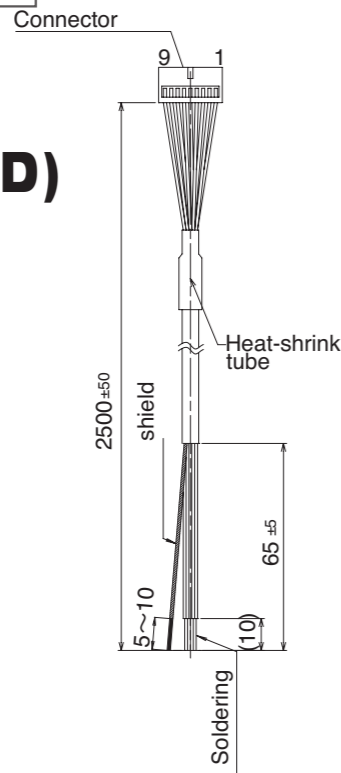


R-G41584-03

Model
**18S,18M,
38S,38H(2MD)**

1. Cable
UL2103 4PxAWG28 (7/0.127)
2. Connector
DF3-9EP-2C [hirose]
3. Wiring specifications

Pin No.	Color	Signal
1	Red	VCC
2	Black	0V
3	Green	Sig. A
4	Blue	Sig. A
5	White	Sig. B
6	Gray	Sig. B
7	Yellow	Sig. Z
8	Orange	Sig. Z
9	Shield	Shield



Gear Sensor

PA-M12



Model

PA-M12-□-05-00E

Complying with RoHS
Cable Length 05 : 500mm
Output Mode C : Open Collector Output
V : Voltage Output

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	Main material	SUS304(screw), PPS(tip)				
	DC 5 to 30V (Ripple 10% or less(P-P))		Signal High : Dark lighting				
Voltage Output	DC 5 to 16V (Ripple 10% or less(P-P))	Checking LED(RED)	Signal Low : Bright lighting				
			VCC ON : Bright lighting(when non-rotating of gear)				
Current consumption(Unloaded)	DC30mA Max (without sink current)	Operating temperature	-20°C~+85°C				
Sink current	40mA Max	Storage temperature	-25°C~+85°C				
Output Voltage	[H] : (Vcc-1.1V)or more (unloaded, at 25°C)(Voltage Output only)	Humidity	RH 85% Max No Condensation				
	[L] : 0.4V or less (Vcc 16V, sink current 40mA, at 25°C)	Vibration	10~55Hz/1mm (X,Y,Z each 1.5 hours)				
Pull-up resistor	2.2kΩ±5%(*Voltage Output only)	Shock	490m/s ² ,11ms (X,Y,Z each 10 times)				
Response speed	12000P/Sec Max	Ingress Protection	IP67				
Output waveform	25~75%(H/(H+L)×100)Square wave						
Maximum output voltage	DC 30V						

* It's different depending on a used module and the material of the gear.
* Please refer to the latest specifications.

