

Panasonic

INSTRUCTION MANUAL

Amplifier-separated Type Inductive Proximity Sensor
Amplifier GA-311 Sensor head GH-□SE

MJE-GA311 N4-9034-54V

Thank you very much for purchasing Panasonic products. Please read this instruction Manual carefully and thoroughly for the correct and optimum use of this product. Kindly keep this manual in a convenient place for quick reference.



WARNING

- Never use this product as a sensing device for personnel protection.
- In case of using sensing devices for personnel protection, use products which meet laws and standards, such as OSHA, ANSI or IEC etc., for personnel protection applicable in each region or country.

1 SPECIFICATIONS

● Sensor head

Type		Cylindrical type					Note	
Item	Model No.	GH-2SE	GH-3SE	GH-4SE	GH-5SE	GH-6SE		
Applicable amplifier		GA-311						
Stable sensing range (Note 1)		0 to 2.0mm	0 to 3.0mm	0 to 1.0mm	0 to 2.0mm			
Max. operation distance (Note 2)		1.0mm	1.5mm	2.4mm	4.0mm			
Standard sensing object		Size: $\phi 4 \times 8 \times 10$ mm				Size: $10 \times 10 \times 10$ mm		
Hydrostatic (Note 3)		0.25mm or less	0.25mm or less		0.25mm or less			
Protection		IP60 (NEMA)	IP67 (NEMA), IP69K (JIS)					
Ambient temperature		-10 to +55°C, Storage: -20 to +70°C						
Ambient humidity		35 to 85% RH, Storage: 35 to 85% RH						
Temp. characteristic (Note 4)		Within $\pm 1\%$	Within $\pm 1\%$	Within $\pm 1\%$	Within $\pm 1\%$			
Material		Enclosure: PBT/ABS Sensing part: PVC	Enclosure: PBT/ABS Sensing part: ABS	Enclosure: PBT/ABS Sensing part: PAR	Enclosure: PBT/ABS Sensing part: ABS	Enclosure: PBT/ABS Sensing part: Fluorine resin		
Cable (Note 4)		Connector attached at rear part. High-frequency coaxial cable, for long (Speaker resistant cable for GH-4SE) (Outer shield: Fluorine resin)						
Weight		15g approx.	20g approx.	40g approx.	40g approx.	55g approx.		

- Notes: 1) The stable sensing range represents the sensing range for which the sensor can satisfy all the given specifications with the standard sensing object. The maximum operation distance represents the maximum distance for which the sensor can detect at +25°C constant ambient temperature. Usage within the stable sensing range is recommended for accurate sensing applications.
- 2) Value is given for the stable sensing range.
- 3) The value represents the variation in the operation distance, that has been set within the stable sensing range at +25°C, for an ambient temperature drift from 0 to +55°C. (The value is for sensor head on its own.)
- 4) The length of the sensor head cable cannot be changed.

● Amplifier

Item	Type	GA-311
Supply voltage		12 to 24V DC $\pm 10\%$, Ripple P-P 10% or less
Current consumption		25mA or less
Output		NPN open-collector transistor • Maximum sink current: 500mA • Applied voltage: 30V DC or less (between output and PNC) • Residual voltage: 1V or less (at 100mA) (Note 1) sink current
Output operation		Normally open, closed. Selection with the operation mode switch
Short-circuit protection		Incorporated
Max. response frequency		0.3kHz
Operation indicator		Orange LED (lights up when the output is ON)
Disconnection alarm indicator		Red LED (lights up when the sensor head is disconnected or misconnected)
Sensitivity adjuster		10-dB potentiometer
Ambient temperature		-10 to +55°C (if 4 to 7 units are connected in cascade: -10 to +50°C, if 8 to 16 units are connected in cascade: -10 to +45°C) (See data compensation or wiring allowed). Storage: -20 to +70°C
Ambient humidity		35 to 85% RH, Storage: 35 to 85% RH
Temp. characteristic (Note 2)		Within $\pm 1\%$
Material		Enclosure: Heat-resistant ABS. Case cover: Polycarbonate
Weight		15g approx.

- Notes: 1) 50mA, if five, or more, amplifiers are connected in cascade.
- 2) The value represents the variation in the operation distance, that has been set within the stable sensing range at +25°C, for an ambient temperature drift from 0 to +55°C. (The value is for amplifier on its own.)
- 3) The cable for amplifier connection is not supplied as an accessory. Make sure to use the optional quick-connection cable given below.
- Main cable (3-core): CN-73-C1 (cable length 1m), CN-73-C2 (cable length 2m)
Sub-cable (1-core): CN-71-C1 (cable length 1m), CN-71-C2 (cable length 2m)
CN-71-C3 (cable length 5m)

2 CAUTIONS

- This product has been developed / produced for industrial use.
- Make sure that the power supply is off while wiring or adding the units.
- Take care that wrong wiring will damage the sensor.
- Verify that the supply voltage variation is within the rating.
- In case noise generating equipment (switching regulator, inverter motor, etc.) is used in the vicinity of this product, connect the frame ground (F.G.) terminal of the equipment to an actual ground.
- If power is supplied from a commercial switching regulator, ensure that the frame ground (F.G.) terminal of the power supply is connected to an actual ground.
- Do not use during the initial transient time (0.5 sec.) after the power supply is switched on.
- Do not run the wires together with high-voltage lines or power lines or put them in the same raceway. This can cause malfunction due to induction.
- Be sure to use the optional quick-connection cable for amplifier connection. Furthermore, extension up to 100m (50m: 5 to 8 units are connected in cascade, 20m: 9 to 16 units are connected in cascade) is possible with 0.3mm² or more, cable. However, in order to reduce noise, make the wiring as short as possible.
- Take care that when the cable is extended, the residual voltage rises.
- Do not shorten or lengthen the sensor head cable.
- This sensor is suitable for indoor use only.
- Do not use the sensor at places having intense vibrations, as this can cause malfunction.
- Take care that the sensor does not come in direct contact with water, oil, grease, organic solvents, such as, thinner etc., or strong acid, and alkaline.
- Make sure that the sensing end is not covered with metal dust, scrap or spatter. It will result in malfunction.
- Take care that stress by forcible bending or pulling is not applied directly to the sensor head cable joint.

3 MOUNTING

Be sure to use a sensor head and amplifier as a set.

● Mounting of amplifier

How to mount the amplifier

- 1) Fit the rear part of the mounting section of the amplifier on a 35mm width DIN rail.
- 2) Press down the rear part of the mounting section of the unit on the 35mm width DIN rail and fit the front part of the mounting section to the DIN rail.



How to remove the amplifier

- 1) Push the amplifier forward.
- 2) Lift up the front part of the amplifier to remove it.



Note: Take care that if the front part is lifted without pushing the amplifier forward, the hook on the rear portion of the mounting section is likely to break.

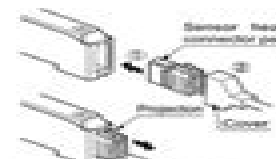
● Connection of sensor head

Connection method

- 1) Insert the sensor head connector into the connector inlet till a click is felt.
- 2) Fit the cover on the connector.

Disconnection method

- 1) Pressing the projection on the sensor head connector, pull out the connector.



Note: Take care that if the connector is pulled out without pressing the projection, the projection may break. Do not use a sensor head connector whose projection has broken. Furthermore, do not pull by holding the cable, as this can cause a cable-break.

● Mounting of sensor head

Mounting with a set screw

- The tightening torque for mounting should be as given right. Furthermore, be sure to use a set screw with a cup-point end.

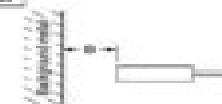


Model No.	A (mm)	Tightening torque
GH-2SE	3 or more	0.17N·m
GH-3SE	4 or more	0.17N·m
GH-4SE	5 or more	0.19N·m
GH-5SE	5 or more	0.50N·m

Note: Do not tighten it with excessive strength.

Influence of surrounding metal

- The surrounding metal will affect the sensing performance. Keep the minimum distance specified in the table right.



Model No.	B (mm)
GH-2SE	3
GH-3SE	4
GH-4SE	5
GH-5SE	5

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