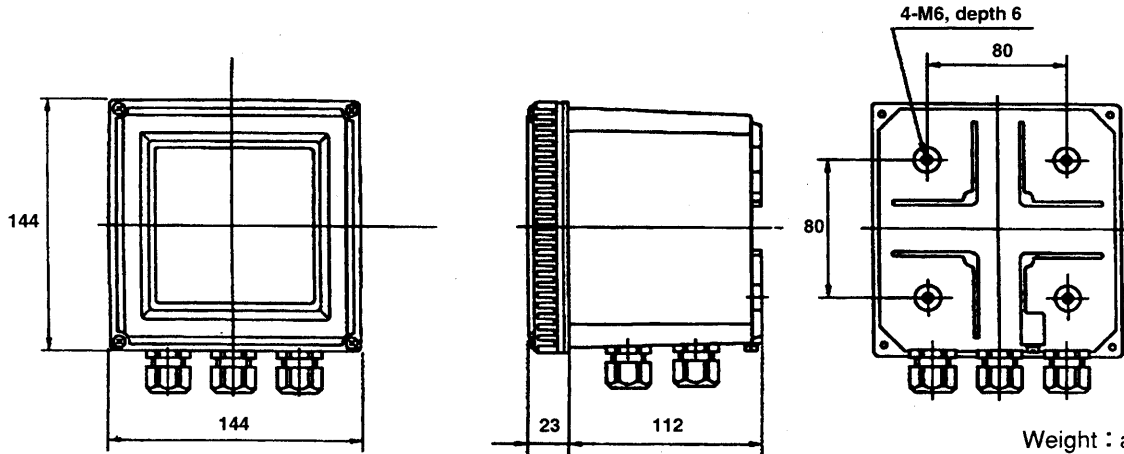


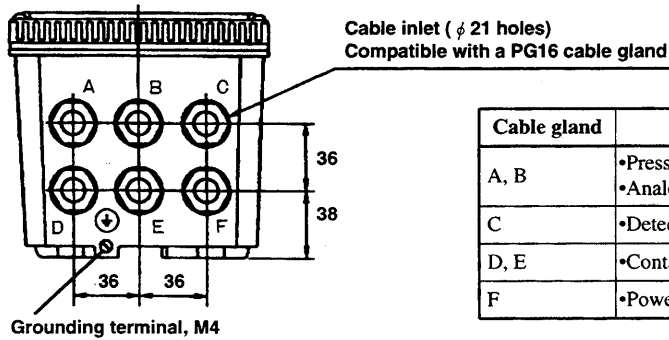
Drawings

GD402G Gas Density Meter Converter (Non-Explosion-proof)

Unit : mm



Weight : approx. 3kg



Cable gland	Connection
A, B	•Pressure transmitter •Analog output •Contact Input
C	•Detector
D, E	•Contact Output
F	•Power Supply

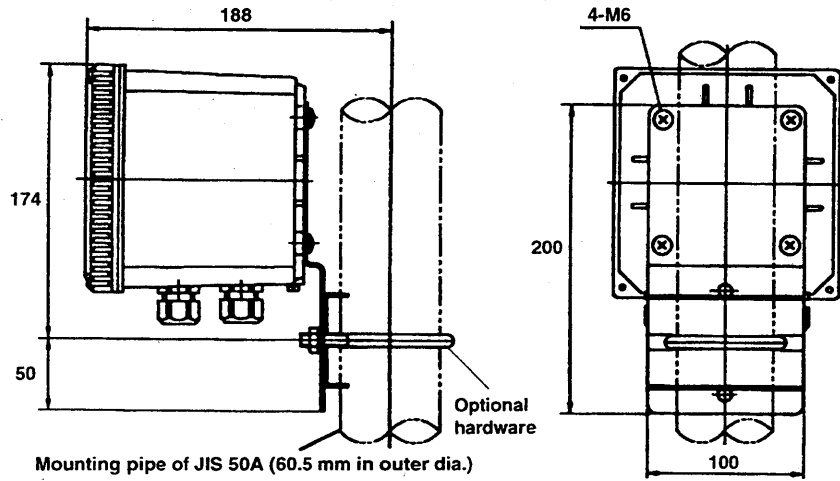
Unless otherwise specified, difference in the dimensions are specified as : General tolerance = ± (Criteria of tolerance class IT18 in JIS B0401-1986) / 2

Pipe- and Wall-Mounting Hardware (Optional)

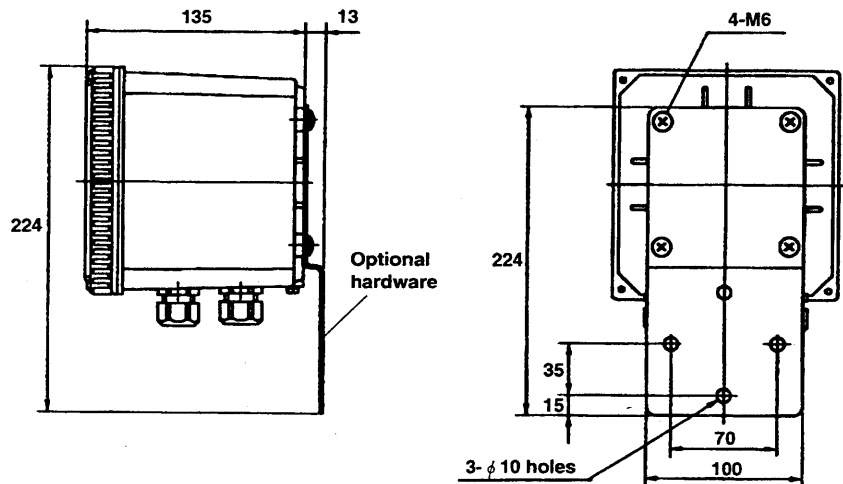
Unit : mm

□ Hardware for Pipe Mounting: GD402G - □ - E - E /PI

Weight : approx. 3kg

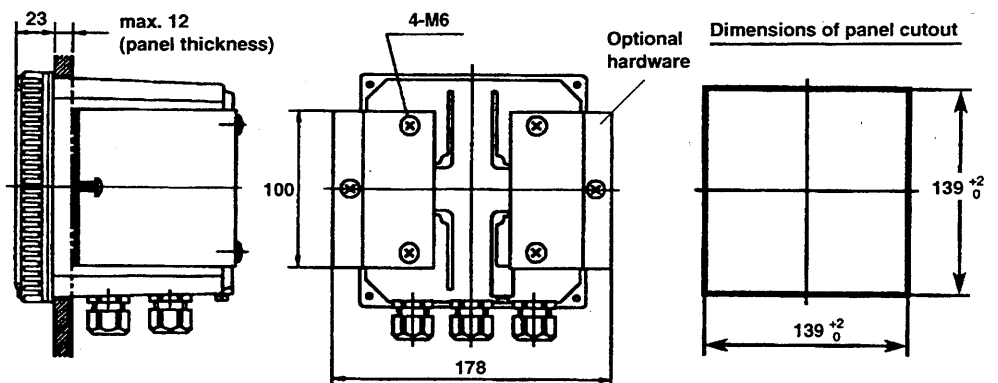


□ Hardware for Wall Mounting: GD402G - □ - E - E /W



□ Hardware for Panel Mounting: GD402G - □ - E - E /PA

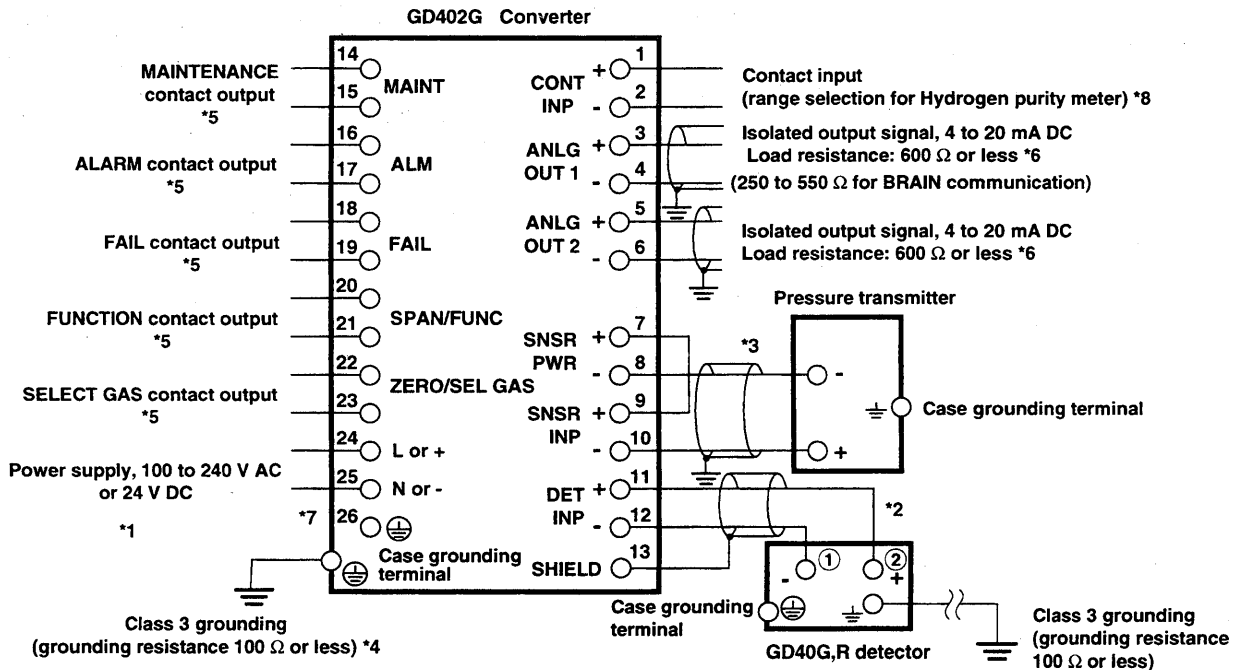
Weight : approx. 3kg



Unless otherwise specified, difference in the dimensions are specified as : General tolerance = \pm (Criteria of tolerance class IT18 in JIS B0401-1986) / 2

Wiring

- Power supply GD402G - D - E - E : 24 V DC
- GD402G - A - E - E : 100 to 240 V AC



- *1: Power supply
Use a two-conductor cable with an OD of 8 to 12 mm.
- *2: Connection to the detector
 - a. Use a two-conductor shielded cable. In addition, the go-and-return resistance must be 50 Ω or less (for conductors with a cross sectional area of 1.25 mm² and a length no greater than 1.4 km).
 - b. Be sure to ground the two-conductor shielded cable at either end of the shield. If an unusual phenomenon occurs due to noise, increase the countermeasures against noise.
(For example, ground the detector body or use a double-shielded cable. If a double-shielded cable is used, ground shields of each conductor on either side of the cable. Ground the end of the outer shield on the detector side to the case of the detector and connect that end on the converter side to terminal 13.) See the Instruction Manual for more precise instructions on cable installation.
 - c. Terminal 13 is for the detector only.
- *3: Connection to the pressure transmitter
 - a. Use a two-conductor shielded cable with an OD of 8.5 to 11 mm. In addition, the go-and-return resistance must be 50 Ω or less (for conductors with a cross sectional area of 1.25 mm² and a length no greater than 1.4 km).
 - b. Be sure to ground the two-conductor shielded cable at either end of the shield.
- *4: Be sure to ground the case of the converter.
- *5: The contacts for the contact outputs are all dry contacts whose NO/NC state can be freely set except for the FAIL contact which is an NC contact and cannot be freely set. Their contact rating is 250 V AC, 3 A or 30 V DC, 3 A each.
 - Function contact ; use distinguish between H₂ purity meter and Replacement meter.
 - Select Gas contact ; use distinguish measuring ranges in Replacement meter.
- *6: Use a two-conductor shielded cable. Be sure to ground the two-conductor shielded cable at either end of the shield.
- *7: Terminal 26 is connected to the case-grounding terminal.
- *8: For hydrogen purity meter, the contact input is used for range selection.
 - Open: Concentration measurement for air in carbon dioxide
 - Close: Concentration measurement for hydrogen in carbon dioxide

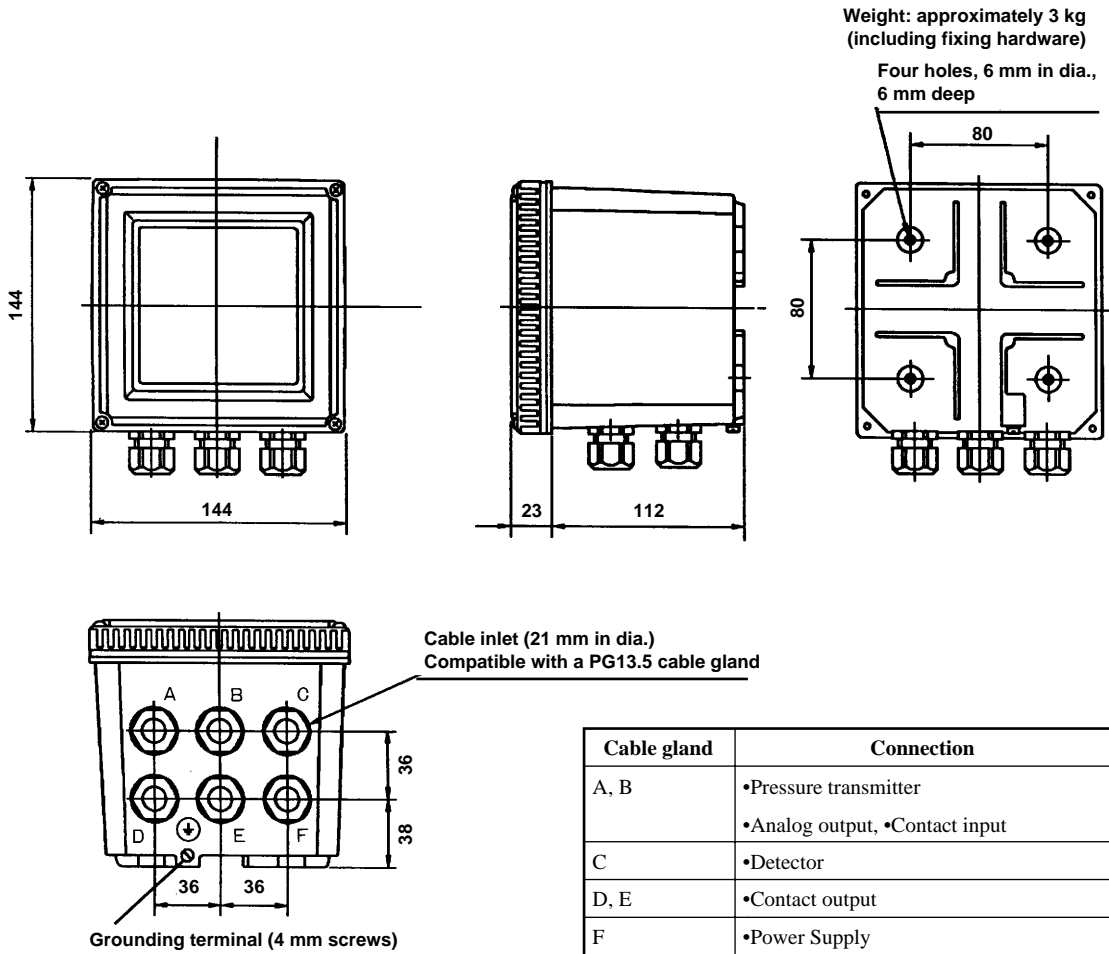
NOTE ; The following cable with an OD size between instruments is used.

instrument	Detector GD40G, R	Pressure transmitter EJA310	Output signal	Contact input /output
Converter				
GD402G	φ 10 to φ 12	φ 8.5 to φ 11	φ 6 to φ 12	φ 6 to φ 12
Non-Explosion-proof				

Drawings

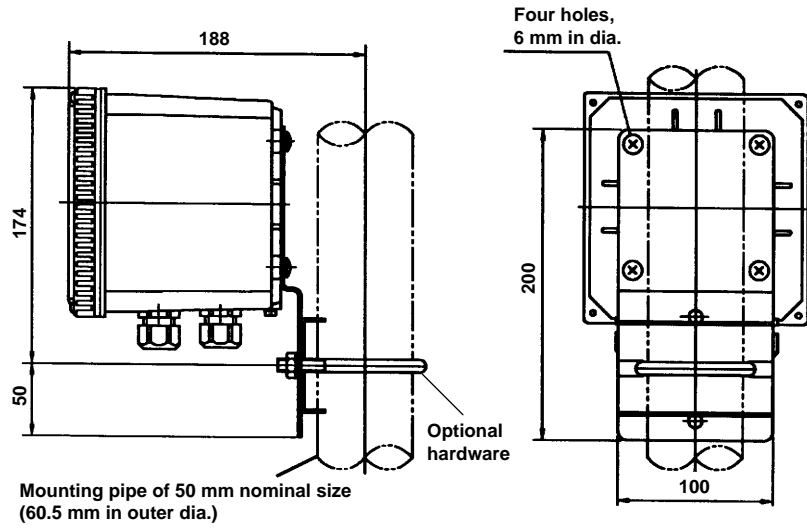
Model GD420G Hydrogen Purity Meter and Replacement Meter Converter for Hydrogen-Cooled Generators

Unit : mm

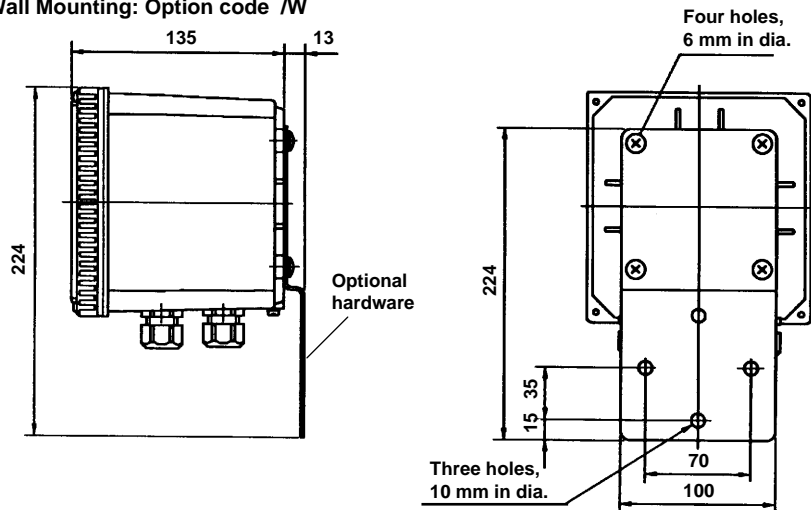


Unless otherwise specified, differences in the dimensions are specified as: General tolerance = \pm (Criteria of tolerance class it18 in JIS BO401-1986) - 2.

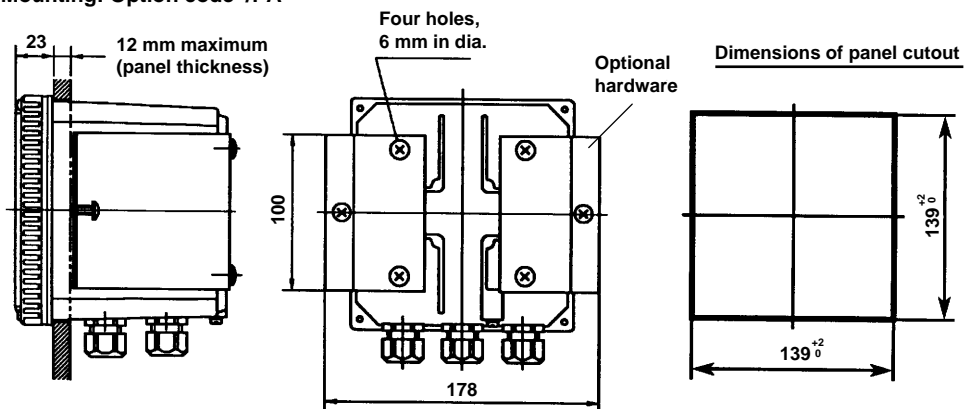
• Hardware for Pipe Mounting: Option code /PI



• Hardware for Wall Mounting: Option code /W



• Hardware for Panel Mounting: Option code /PA

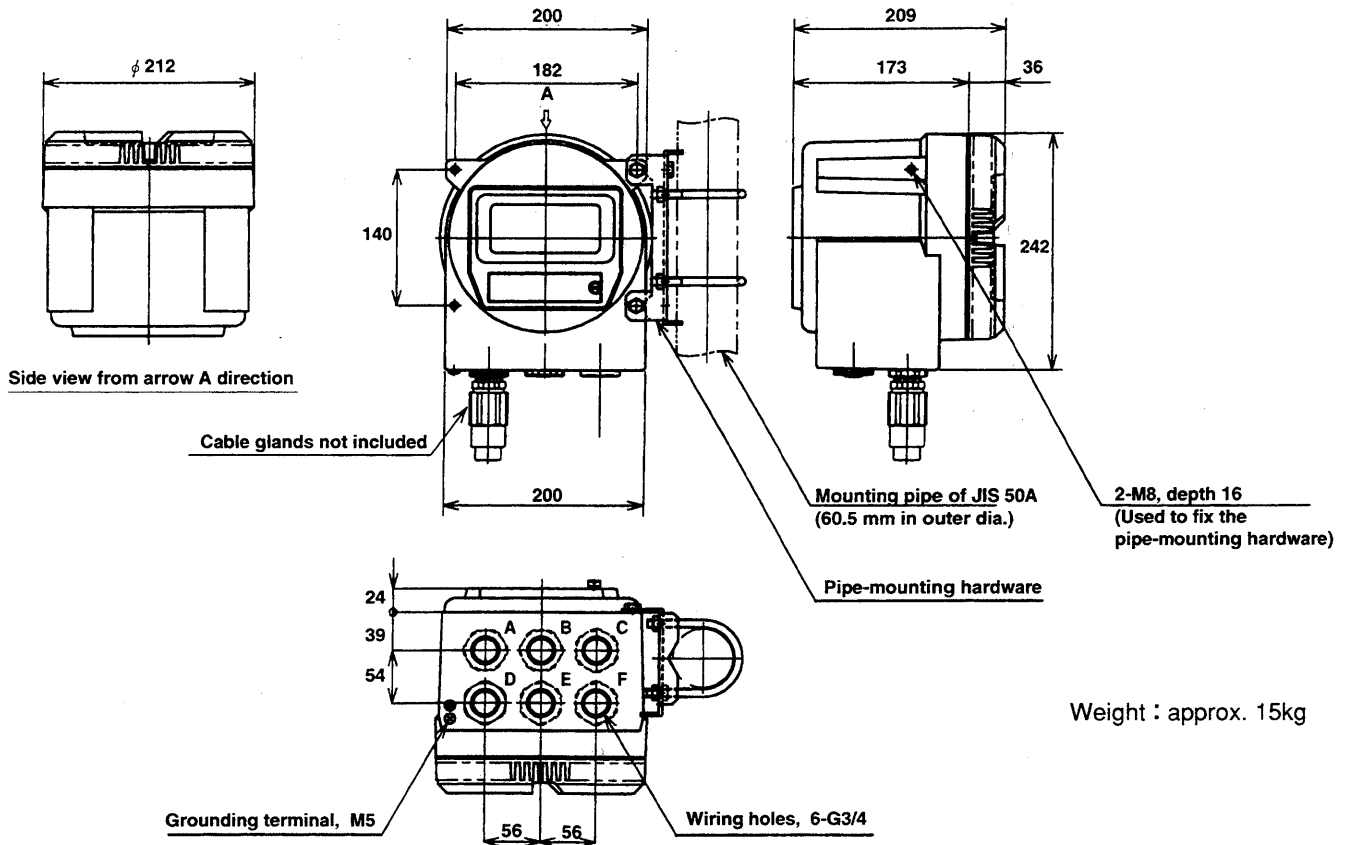


Unless otherwise specified, differences in the dimensions are specified as: General tolerance = \pm (Criteria of tolerance class it18 in JIS B0401-1986) - 2.

Drawings

GD402R Gas Density Meter Converter (Explosion-proof)

Unit : mm



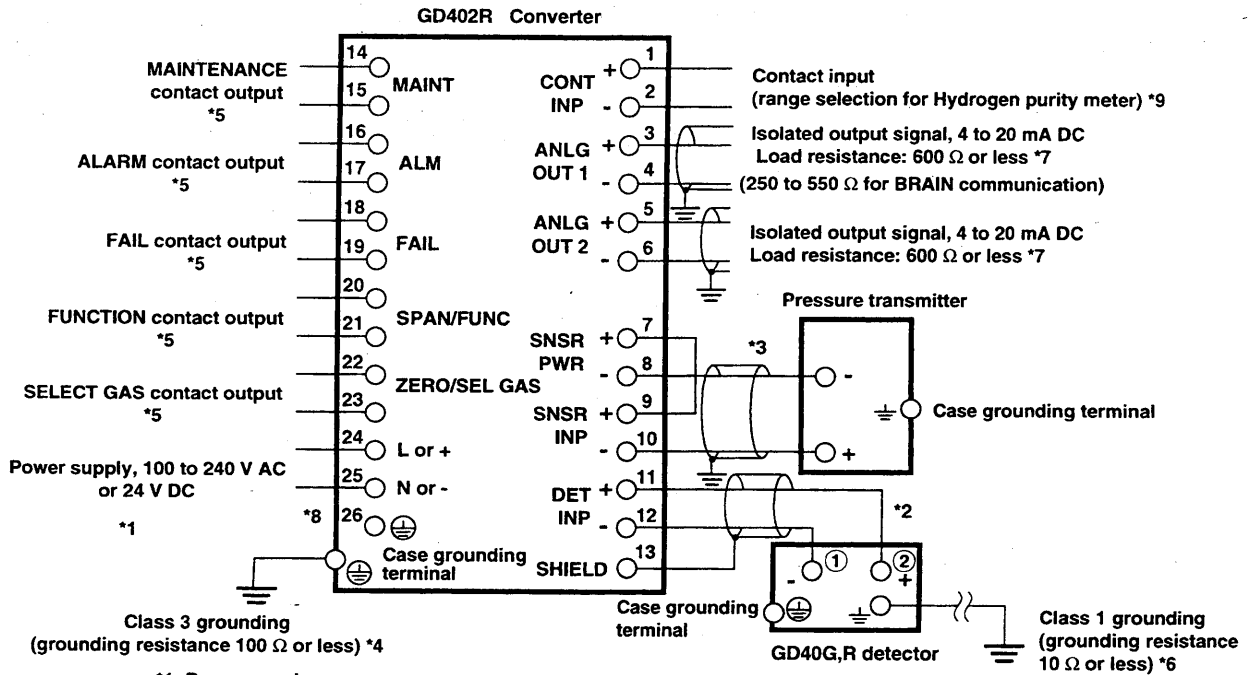
Weight : approx. 15kg

Cable gland	Connection
A	•Power Supply
B, C	•Contact Output
D	•Detector
E, F	•Pressure from Transmitter, •Analog Output, •Contact Input

Unless otherwise specified, difference in the dimensions are specified as : General tolerance = \pm (Criteria of tolerance class IT18 in JIS B0401-1986) / 2

Wiring

- Power supply GD402R - D - J - E : 24 V DC
 GD402R - A - J - E : 100 to 240 V AC



- *1: Power supply
Use a two-conductor cable with an OD of 8 to 12 mm.
- *2: Connection to the detector
a. Use a two-conductor shielded cable. In addition, the go-and-return resistance must be 50 Ω or less (for conductors with a cross sectional area of 1.25 mm² and a length no greater than 1.4 km).
b. Be sure to ground the two-conductor shielded cable at either end of the shield. If an unusual phenomenon occurs due to noise, increase the countermeasures against noise.
(For example, ground the detector body or use a double-shielded cable. If a double-shielded cable is used, ground shields of each conductor on either side of the cable. Ground the end of the outer shield on the detector side to the case of the detector and connect that end on the converter side to terminal 13.) See the Instruction Manual for more precise instructions on cable installation.
c. Terminal 13 is for the detector only.
- *3: Connection to the pressure transmitter
a. Use a two-conductor shielded cable with an OD of 8.5 to 11 mm. In addition, the go-and-return resistance must be 50 Ω or less (for conductors with a cross sectional area of 1.25 mm² and a length no greater than 1.4 km).
b. Be sure to ground the two-conductor shielded cable at either end of the shield.
- *4: Be sure to ground the case of the converter.
- *5: The contacts for the contact outputs are all dry contacts whose NO/NC state can be freely set except for the FAIL contact which is an NC contact and cannot be freely set. Their contact rating is 250 V AC, 3 A or 30 V DC, 3 A each.
· Function contact ; use distinguish between H₂ purity meter and Replacement meter.
· Select Gas contact ; use distinguish measuring ranges in Replacement meter.
- *6: If the detector is to be installed and used in a hazardous area, be sure to implement class 1 grounding work (grounding resistance is 10 Ω or less). In addition, the grounding point of class 1 grounding must be located in a non-hazardous area.
- *7: Use a two-conductor shielded cable. Be sure to ground the two-conductor shielded cable at either end of the shield.
- *8: Terminal 26 is connected to the case-grounding terminal.
- *9: For hydrogen purity meter, the contact input is used for range selection.
Open: Concentration measurement for air in carbon dioxide
Close: Concentration measurement for hydrogen in carbon dioxide

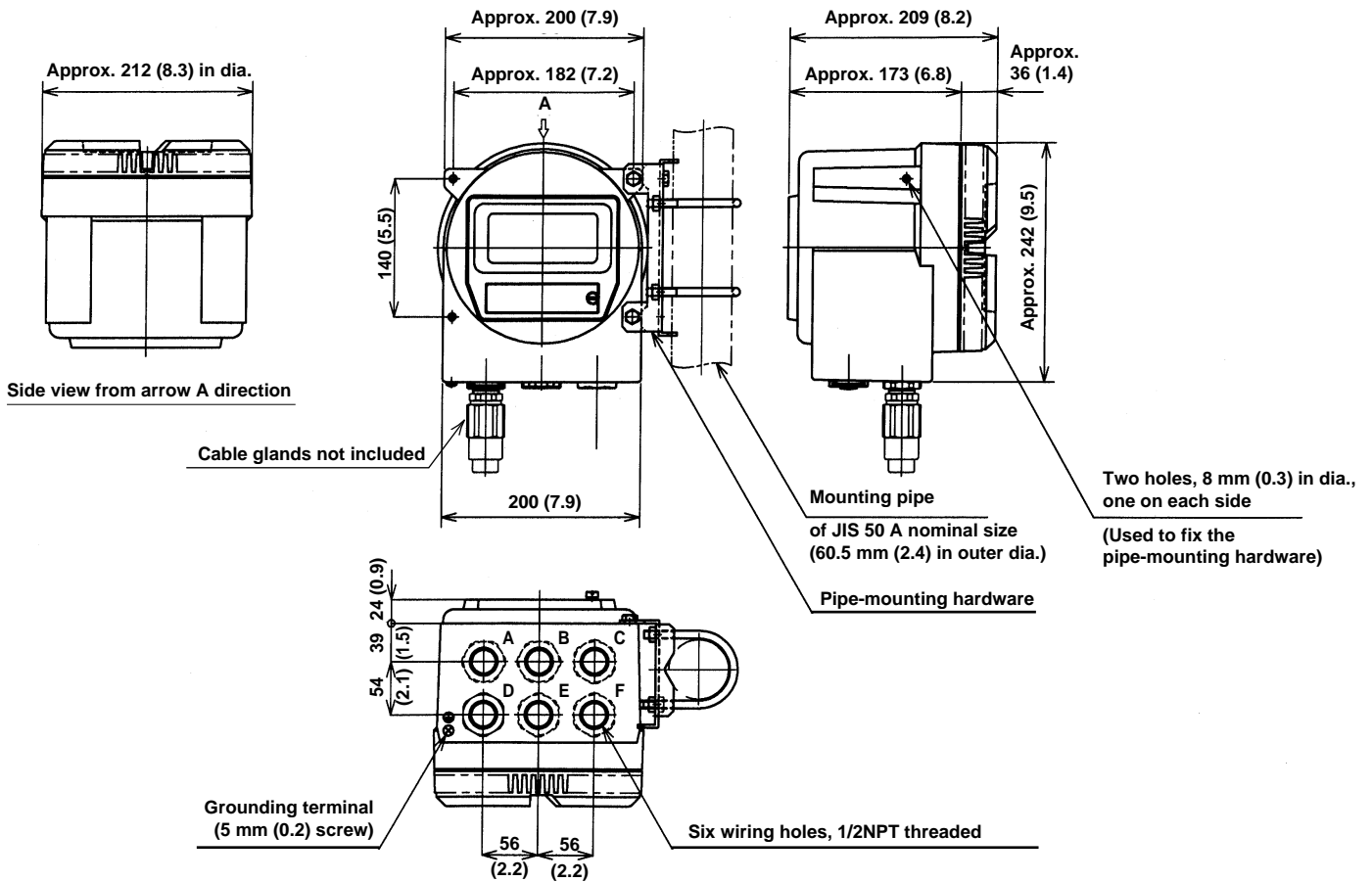
NOTE ; The following cable with an OD size between instruments is used.

instrument	Detector GD40G, R	Pressure transmitter EJA310	Output signal	Contact input /output
Converter GD402R Explosion-proof	φ 10 to φ 13.5	φ 8.5 to φ 11	φ 8 to φ 16	φ 8 to φ 16

Drawings

Model GD402T Gas Density Meter Converter (Explosionproof)

Unit: mm (in.)



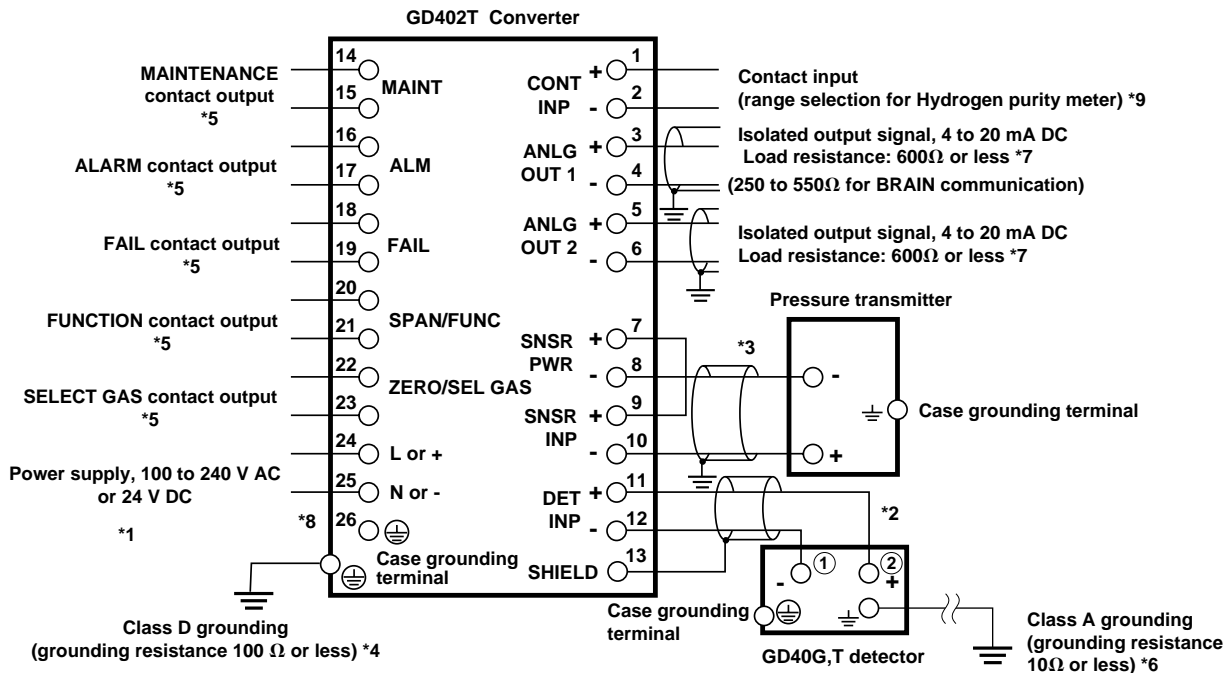
Cable gland	Connection
A	• Power Supply
B, C	• Contact Output
D	• Detector
E, F	• Pressure from Transmitter, • Analog Output, • Contact Input

Weight: approx. 15 kg

Unless otherwise specified, differences in the dimensions are specified as: General tolerance = \pm (Criteria of tolerance class it18 in JIS BO401-1986) - 2.

Wiring Diagram

□ GD402T-D : 24 V DC, □ GD402T-A : 100 - 240 V AC



- *1: Power supply
Use a two-conductor cable with an OD of 8 to 12 mm.
- *2: Connection to the detector
 - a. Use a two-conductor shielded cable. In addition, the go-and-return resistance must be 50 Ω or less (for conductors with a cross sectional area of 1.25 mm² and a length no greater than 1.4 km).
 - b. Be sure to ground the two-conductor shielded cable at either end of the shield. If an unusual phenomenon occurs due to noise, increase the countermeasures against noise. (For example, ground the detector body or use a double-shielded cable. If a double-shielded cable is used, ground shields of each conductor on either side of the cable. Ground the end of the outer shield on the detector side to the case of the detector and connect that end on the converter side to terminal 13.) See the Instruction Manual for more precise instructions on cable installation.
 - c. Terminal 13 is for the detector only.
- *3: Connection to the pressure transmitter
 - a. Use a two-conductor shielded cable with an OD of 8.5 to 11 mm. In addition, the go-and-return resistance must be 50 Ω or less (for conductors with a cross sectional area of 1.25 mm² and a length no greater than 1.4 km).
 - b. Be sure to ground the two-conductor shielded cable at either end of the shield.
- *4: Be sure to ground the case of the converter.
- *5: The contacts for the contact outputs are all dry contacts whose NO/NC state can be freely set except for the FAIL contact which is an NC contact and cannot be freely set. Their contact rating is 250 V AC, 3 A or 30 V DC, 3 A each.
 - Function contact ; use distinguish between H₂ purity meter and Replacement meter.
 - Select Gas contact ; use distinguish measuring ranges in Replacement meter.
- *6: If the detector is to be installed and used in a hazardous area, be sure to implement class A grounding work (grounding resistance is 10 Ω or less). In addition, the grounding point of class A grounding must be located in a non-hazardous area.
- *7: Use a two-conductor shielded cable. Be sure to ground the two-conductor shielded cable at either end of the shield.
- *8: Terminal 26 is connected to the case-grounding terminal.
- *9: For hydrogen purity meter, the contact input is used for range selection.
Open: Concentration measurement for air in carbon dioxide
Close: Concentration measurement for hydrogen in carbon dioxide

NOTE ; The following cable with an OD size between instruments is used.

instrument	Detector GD40□	Pressure transmitter EJA310	Output signal	Contact input /output
Converter GD402T Explosion-proof	φ10 to φ13.5	φ8.5 to φ11	φ8 to 16	φ8 to φ16

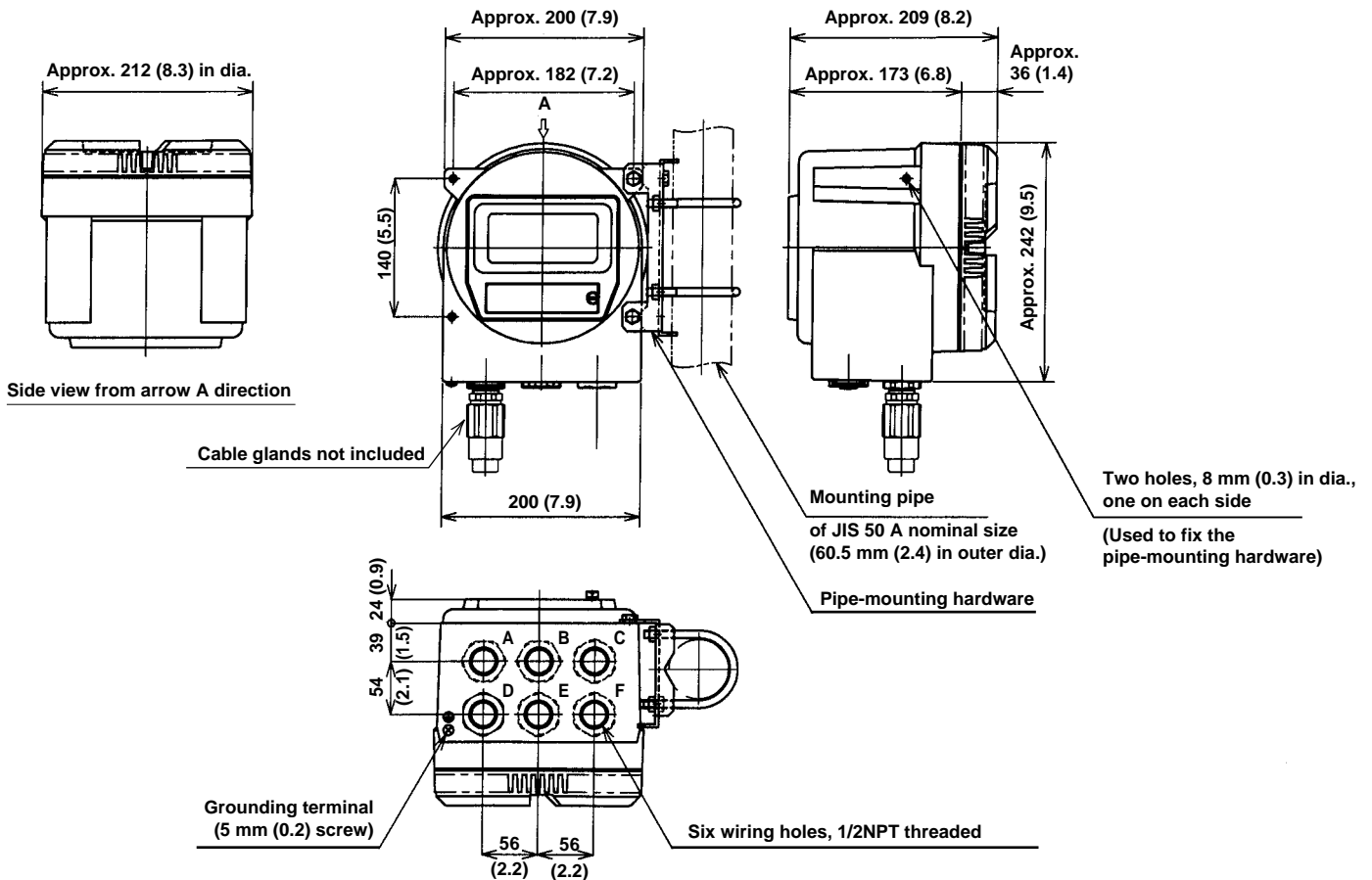
● GD402T Converter and GD40T Detector is no cable gland included.

*10: GD402T, GD40T; All wiring shall comply with National Electrical Code and ANSI/NFPA70 and Local Electrical

Drawings

Model GD402V Gas Density Meter Converter (Explosionproof)

Unit: mm (in.)



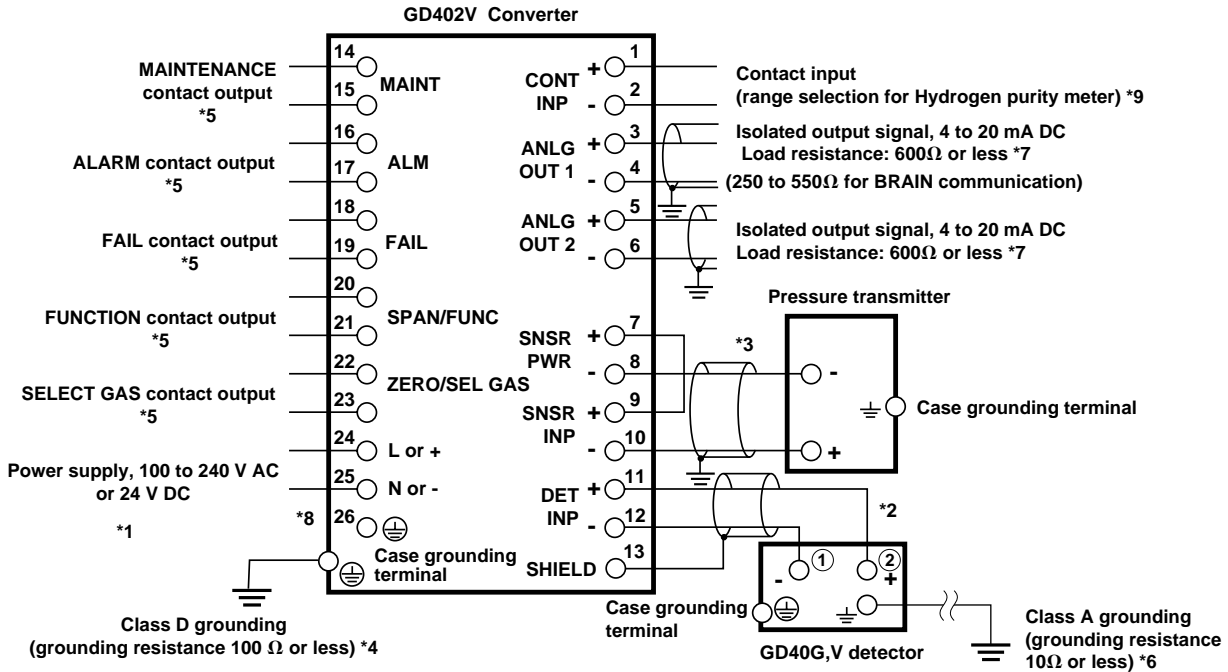
Cable gland	Connection
A	• Power Supply
B, C	• Contact Output
D	• Detector
E, F	• Pressure from Transmitter, • Analog Output, • Contact Input

Weight: approx. 15 kg

Unless otherwise specified, differences in the dimensions are specified as: General tolerance = \pm (Criteria of tolerance class it18 in JIS BO401-1986) - 2.

Wiring Diagram

□ GD402V-D : 24 V DC, □ GD402V-A : 100 - 240 V AC



- *1: Power supply
Use a two-conductor cable with an OD of 8 to 12 mm.
- *2: Connection to the detector
 - a. Use a two-conductor shielded cable. In addition, the go-and-return resistance must be 50 Ω or less (for conductors with a cross sectional area of 1.25 mm² and a length no greater than 1.4 km).
 - b. Be sure to ground the two-conductor shielded cable at either end of the shield. If an unusual phenomenon occurs due to noise, increase the countermeasures against noise. (For example, ground the detector body or use a double-shielded cable. If a double-shielded cable is used, ground shields of each conductor on either side of the cable. Ground the end of the outer shield on the detector side to the case of the detector and connect that end on the converter side to terminal 13.) See the Instruction Manual for more precise instructions on cable installation.
 - c. Terminal 13 is for the detector only.
- *3: Connection to the pressure transmitter
 - a. Use a two-conductor shielded cable with an OD of 8.5 to 11 mm. In addition, the go-and-return resistance must be 50 Ω or less (for conductors with a cross sectional area of 1.25 mm² and a length no greater than 1.4 km).
 - b. Be sure to ground the two-conductor shielded cable at either end of the shield.
- *4: Be sure to ground the case of the converter.
- *5: The contacts for the contact outputs are all dry contacts whose NO/NC state can be freely set except for the FAIL contact which is an NC contact and cannot be freely set. Their contact rating is 250 V AC, 3 A or 30 V DC, 3 A each.
 - Function contact ; use distinguish between H₂ purity meter and Replacement meter.
 - Select Gas contact ; use distinguish measuring ranges in Replacement meter.
- *6: If the detector is to be installed and used in a hazardous area, be sure to implement class A grounding work (grounding resistance is 10 Ω or less). In addition, the grounding point of class A grounding must be located in a non-hazardous area.
- *7: Use a two-conductor shielded cable. Be sure to ground the two-conductor shielded cable at either end of the shield.
- *8: Terminal 26 is connected to the case-grounding terminal.
- *9: For hydrogen purity meter, the contact input is used for range selection.
 - Open: Concentration measurement for air in carbon dioxide
 - Close: Concentration measurement for hydrogen in carbon dioxide

NOTE ; The following cable with an OD size between instruments is used.

instrument	Detector	Pressure transmitter	Output signal	Contact input /output
Converter	GD40G, V	EJA310	Output signal	Contact input /output
GD402V	φ10 to φ13.5	φ8.5 to φ11	φ8 to 16	φ8 to φ16
Explosion-proof				

● GD402V Converter and GD40V Detector is no cable gland included.

*10: GD402V, GD40V; All wiring shall comply with National Electrical Code and ANSI/NFPA70 and Local Electrical