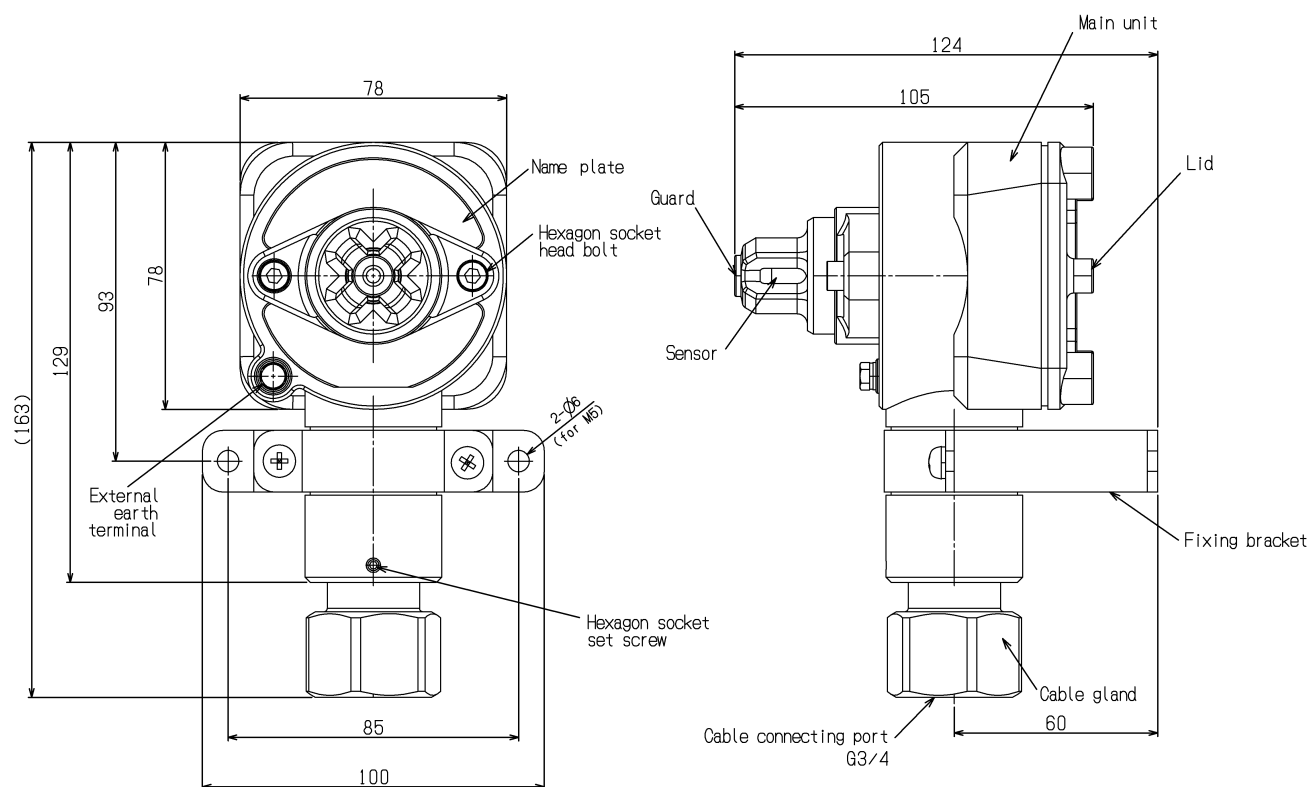


## **GAS DETECTOR UNIT** **GD-A80 (ATEX - IECEx) SPECIFICATION**

Model	GD-A80
Principle of detection	Catalytic combustion method / New ceramic method
Detection gas	Combustible gas in the air
Detection method	Diffusion type
Transmission cable	CVV 1.25mm <sup>2</sup> or 2mm <sup>2</sup> - 4-core
Cabling connecting port	Pressure proof packing gland <G3/4> (Compatible cables $\phi$ 9.5 - 13.0mm in outer diameter)
Operating temperature range*1	-20 - +53°C (at a constant condition)
Operating humidity range	Below 95%RH (Non-condensing)
Structure	Wall mount type, 2B(50A) pipe attachable
Explosion-proof structure	Flame-proof enclosures
Explosion-proof class	II 2G Ex db II C T4 Gb(ATEX)/Ex db II C T4 Gb(IECEx)
Explosion-proof approval No.	DNV 21 ATEX 64381X(ATEX)/IECEx DNV 21.0052X(IECEx)
Outer dimension	Approx. 78(W) × 163(H) × 105(D)mm (Fixing brackets excluded)
Weight	Approx. 1.0kg
Outer color	Munsell 7.5BG5/2 Name plate : red

\*1 The ambient temperature range which maintain a capability of explosion proof of the label on the detector is -40 - +53°C. However, the available operating temperature range is -20 - +53°C.

### Outline Drawings

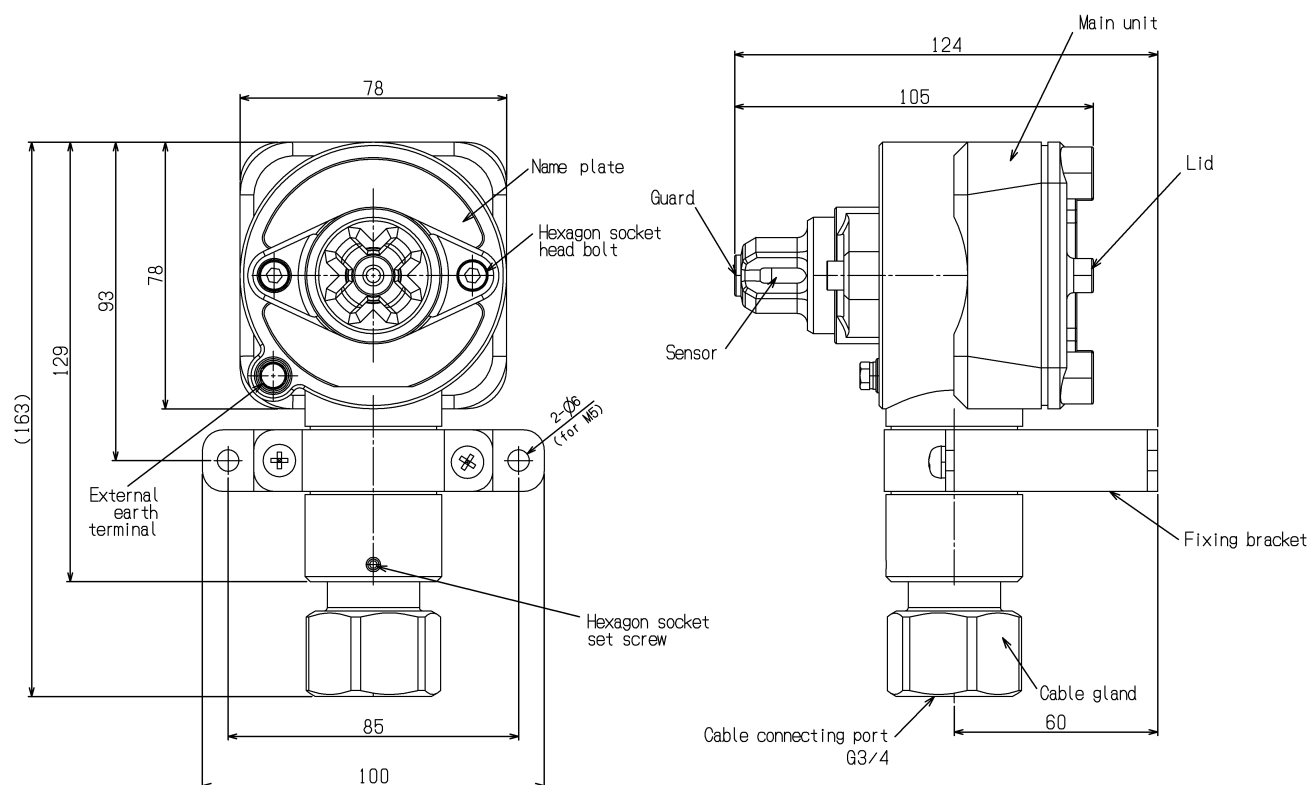


## **GAS DETECTOR UNIT** **GD-A80V (ATEX - IECEx) SPECIFICATION**

Model	GD-A80V
Principle of detection	Semiconductor method
Detection gas	Combustible gas / Toxic gas in the air
Detection method	Diffusion type
Transmission cable	CVVS 1.25mm <sup>2</sup> or 2mm <sup>2</sup> - 3-core
Cabling connecting port	Pressure proof packing gland <G3/4> (Compatible cables $\phi$ 9.5 - 13.0mm in outer diameter)
Operating temperature range*1	-20 - +53°C (at a constant condition)
Operating humidity range	Below 95%RH (Non-condensing)
Structure	Wall mount type, 2B(50A) pipe attachable
Explosion-proof structure	Flame-proof enclosures
Explosion-proof class	II 2G Ex db IIC T4 Gb(ATEX)/Ex db IIC T4 Gb(IECEX)
Explosion-proof approval No.	DNV 21 ATEX 64381X(ATEX)/IECEX DNV 21.0052X(IECEX)
Outer dimension	Approx. 78(W) × 163(H) × 105(D)mm (Fixing brackets excluded)
Weight	Approx. 1.0kg
Outer color	Munsell 7.5BG5/2 Name plate : yellow

※1 The ambient temperature range which maintain a capability of explosion proof of the label on the detector is -40 - +53°C. However, the available operating temperature range is -20 - +53°C.

### Outline Drawings

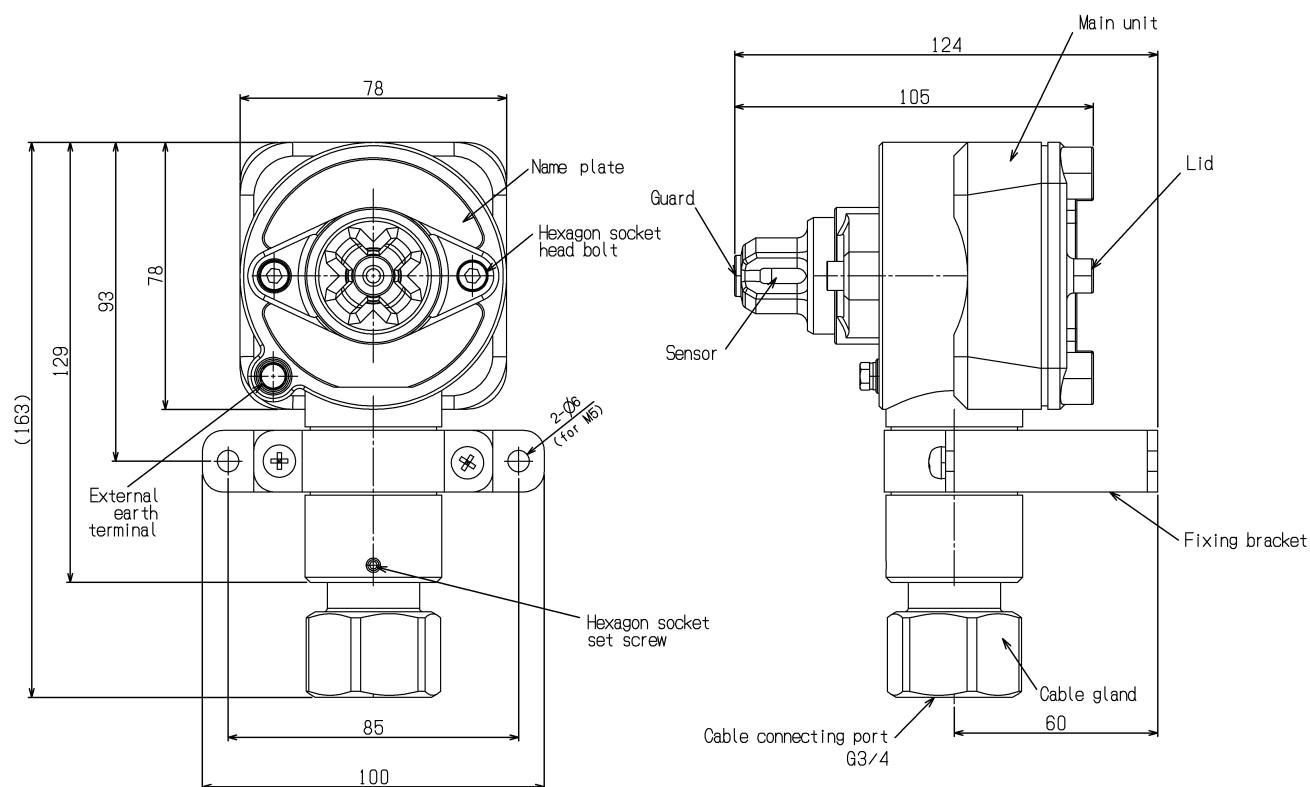


## GAS DETECTOR UNIT GD-A80S (ATEX - IECEx) SPECIFICATION

Model	GD-A80S
Principle of detection	Hot wire semiconductor method
Detection gas	Combustible gas / Toxic gas in the air
Detection method	Diffusion type
Transmission cable	CVVS 1.25mm <sup>2</sup> or 2mm <sup>2</sup> - 4-core
Cabling connecting port	Pressure proof packing gland <G3/4> (Compatible cables $\phi$ 9.5 - 13.0mm in outer diameter)
Operating temperature range*1	-20 - +53°C (at a constant condition)
Operating humidity range	Below 95%RH (Non-condensing)
Structure	Wall mount type, 2B(50A) pipe attachable
Explosion-proof structure	Flame-proof enclosures
Explosion-proof class	II 2G Ex db II C T4 Gb(ATEX)/Ex db II C T4 Gb(IECEx)
Explosion-proof approval No.	DNV 21 ATEX 64381X(ATEX)/IECEx DNV 21.0052X(IECEx)
Outer dimension	Approx. 78(W) × 163(H) × 105(D)mm (Fixing brackets excluded)
Weight	Approx. 1.0kg
Outer color	Munsell 7.5BG5/2 Name plate : blue

\*1 The ambient temperature range which maintain a capability of explosion proof of the label on the detector is -40 - +53°C. However, the available operating temperature range is -20 - +53°C.

### Outline Drawings

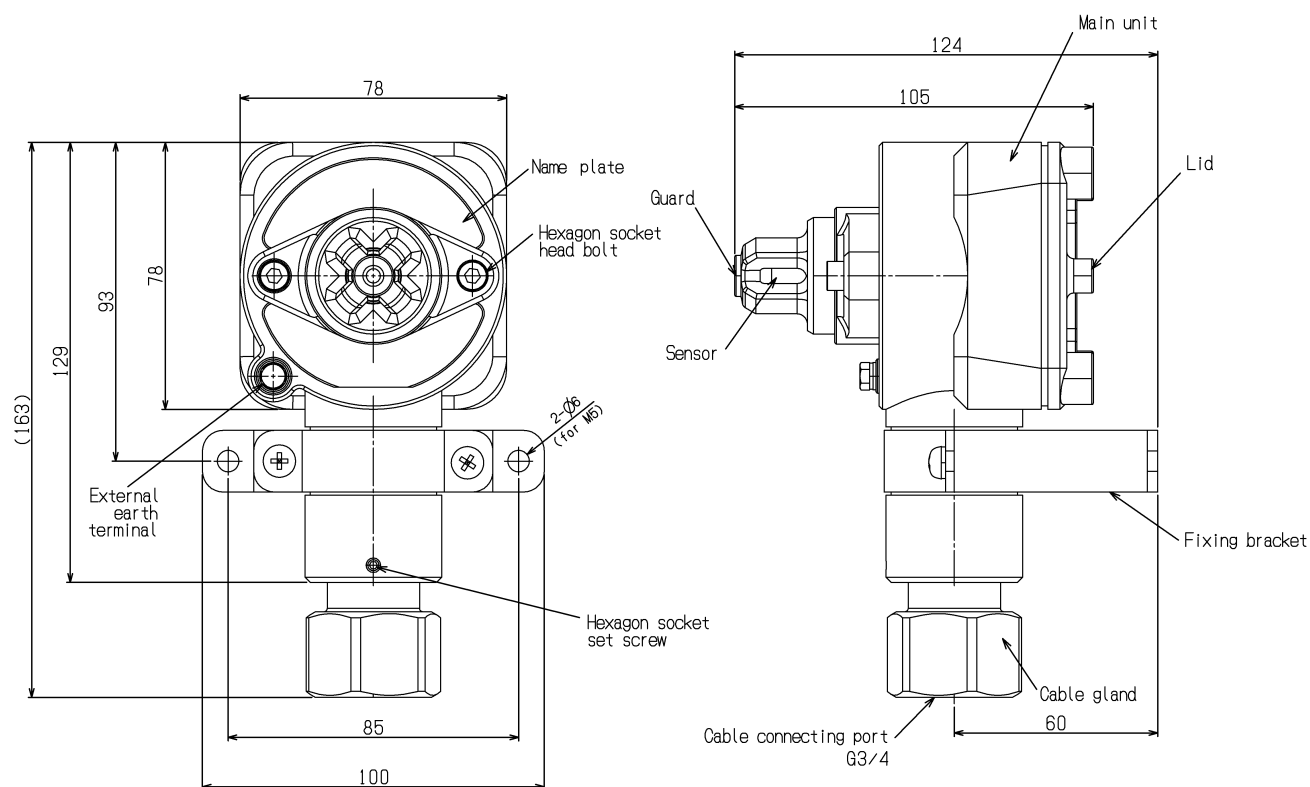


## **GAS DETECTOR UNIT** **GD-A80N (ATEX - IECEx) SPECIFICATION**

Model	GD-A80N
Principle of detection	Thermal conductivity method
Detection gas	Combustible gases in the air/inert gas
Detection method	Diffusion type
Transmission cable	CVVS 1.25mm <sup>2</sup> or 2mm <sup>2</sup> - 4-core
Cabling connecting port	Pressure proof packing gland <G3/4> (Compatible cables $\phi$ 9.5 - 13.0mm in outer diameter)
Operating temperature range*1	-20 - +53°C (at a constant condition)
Operating humidity range	Below 95%RH (Non-condensing)
Structure	Wall mount type, 2B(50A) pipe attachable
Explosion-proof structure	Flame-proof enclosures
Explosion-proof class	II 2G Ex db II C T4 Gb(ATEX)/Ex db II C T4 Gb(IECEx)
Explosion-proof approval No.	DNV 21 ATEX 64381X(ATEX)/IECEx DNV 21.0052X(IECEx)
Outer dimension	Approx. 78(W) × 163(H) × 105(D)mm (Fixing brackets excluded)
Weight	Approx. 1.0kg
Outer color	Munsell 7.5BG5/2 Name plate : red

\*1 The ambient temperature range which maintain a capability of explosion proof of the label on the detector is -40 - +53°C. However, the available operating temperature range is -20 - +53°C.

### Outline Drawings

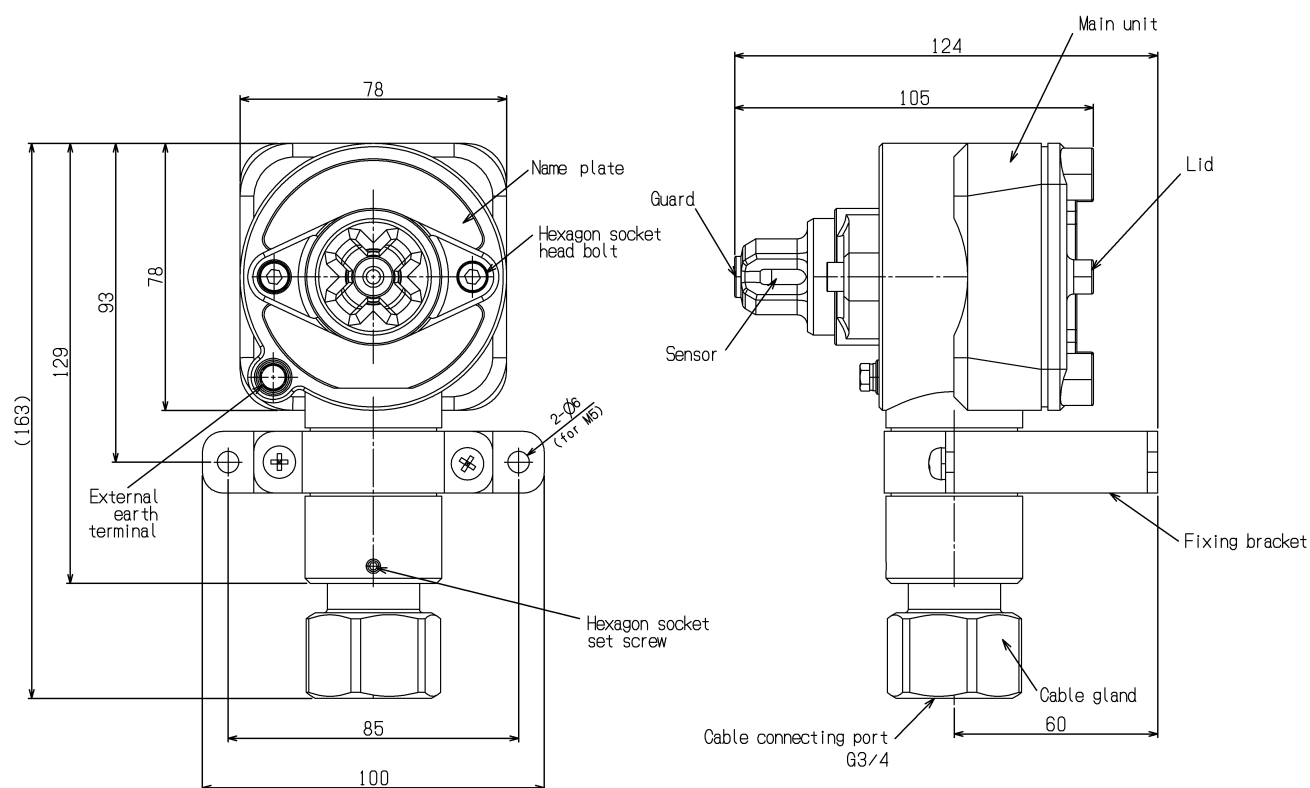


## GAS DETECTOR UNIT GD-A80-70 (ATEX - IECEX) SPECIFICATION

Model	GD-A80-70	
Principle of detection	Catalytic combustion method	
Sensor	HW-6212	HW-6239
Detection gas	Combustible gas (Methane excluded), Solvent vapor	Methane, Isobutane, Hydrogen
Detection method	Diffusion type	
Transmission cable	EM CCE/F 1.25mm <sup>2</sup> or 2mm <sup>2</sup> - 4-core	
Cabling connecting port	Pressure proof packing gland <G3/4> (Compatible cables $\phi$ 9.5 - 13.0mm in outer diameter)	
Operating temperature range	-10 - +100°C (at a constant condition)*1	-40 - +70°C (at a constant condition)
Operating humidity range	Below 95%RH (Non-condensing)	
Structure	Wall mount type, 2B(50A) pipe attachable	
Explosion-proof structure	Flame-proof enclosures	
Explosion-proof class	II 2G Ex db IIC T4 Gb (ATEX) / Ex db IIC T4 Gb (IECEX)	
Explosion-proof approval No.	DNV 21 ATEX 64381X (ATEX) / IECEX DNV 21.0052X (IECEX)	
Outer dimension	Approx. 78 (W) × 163 (H) × 105 (D) mm (Fixing brackets excluded)	
Weight	Approx. 1.0kg	
Outer color	Munsell 7.5BG5/2 Name plate : red	

\*1 The ambient temperature range which maintain a capability of explosion proof of the label on the detector is -40 - +70°C. However, the available operating temperature range is -10 - +100°C.

### Outline Drawings



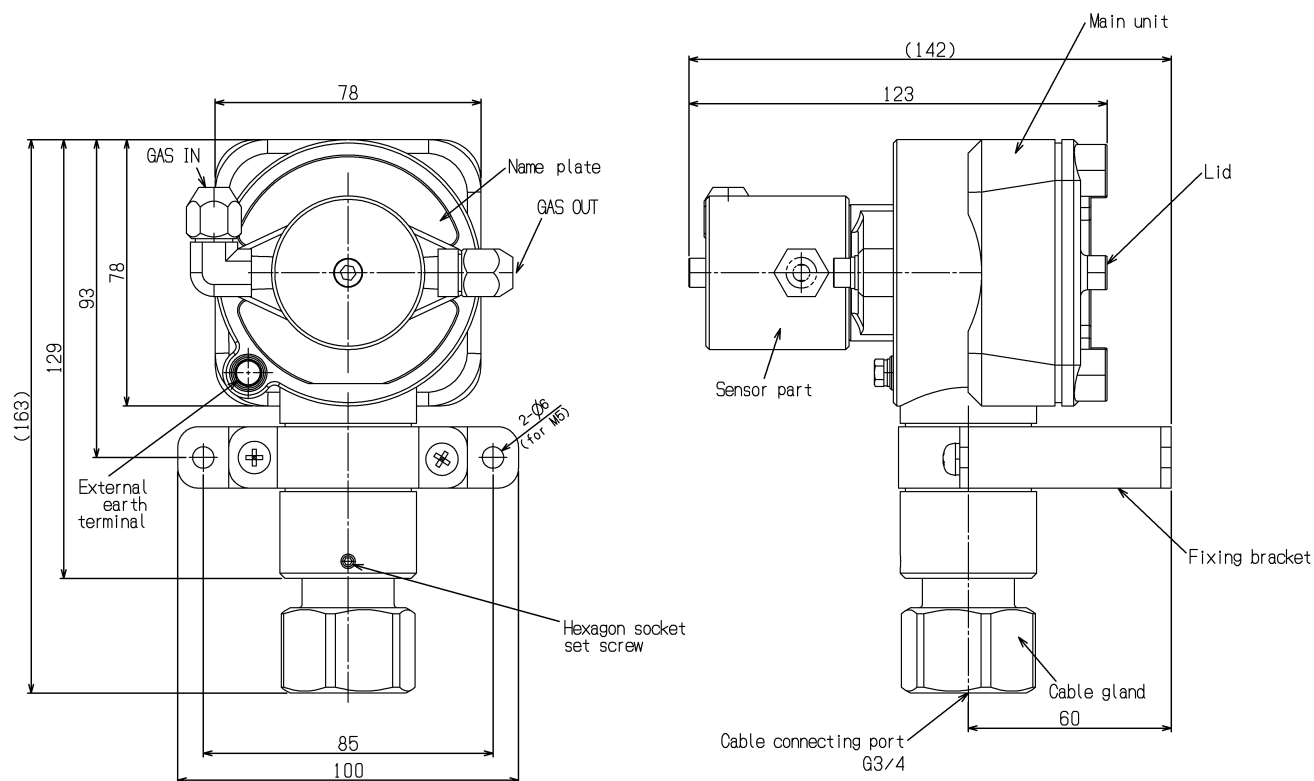
## **GAS DETECTOR UNIT** **GD-A80D (ATEX - IECEx) SPECIFICATION**

Model	GD-A80D
Principle of detection	Catalytic combustion method / New ceramic method
Detection gas	Combustible gas in the air
Detection method	Suction type (introduced by an external pump unit)
Flow rate	0.8 - 2L/min
Transmission cable	CVV 1.25mm <sup>2</sup> or 2mm <sup>2</sup> - 4-core
Cabling connecting port	Pressure proof packing gland <G3/4> (Compatible cables $\phi$ 9.5 - 13.0mm in outer diameter)
Tube connecting port*1	Rc1/8(O.D $\phi$ 6-1t) (material: PP or Bs or SUS)
Operating temperature range*2	-20 - +53°C (at a constant condition)
Operating humidity range	Below 95%RH (Non-condensing)
Structure	Wall mount type, 2B(50A) pipe attachable
Explosion-proof structure	Flame-proof enclosures
Explosion-proof class	II 2G Ex db IIC T4 Gb(ATEX)/Ex db IIC T4 Gb(IECEx)
Explosion-proof approval No.	DNV 21 ATEX 64381X(ATEX)/IECEx DNV 21.0052X(IECEx)
Outer dimension	Approx. 78(W) × 163(H) × 123(D)mm (Fixing brackets excluded)
Weight	Approx. 1.0kg
Outer color	Munsell 7.5BG5/2 Name plate : red

\*1 Please specify your request when ordering.

\*2 The ambient temperature range which maintain a capability of explosion proof of the label on the detector is -40 - +53°C. However, the available operating temperature range is -20 - +53°C.

### Outline Drawings



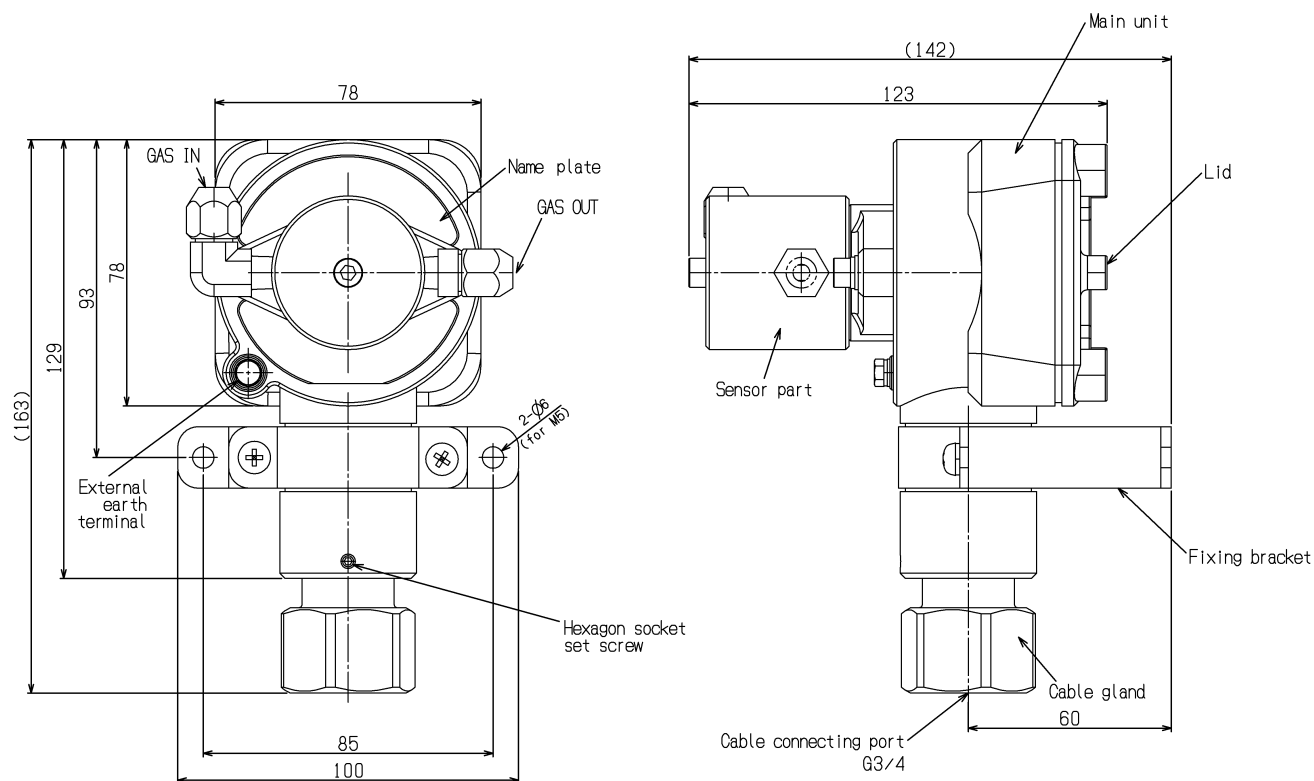
## GAS DETECTOR UNIT GD-A80DV (ATEX - IECEx) SPECIFICATION

Model	GD-A80DV
Principle of detection	Semiconductor method
Detection gas	Combustible gas / Toxic gas in the air
Detection method	Suction type (introduced by an external pump unit)
Flow rate	0.8 - 2L/min
Transmission cable	CVVS 1.25mm <sup>2</sup> or 2mm <sup>2</sup> - 3-core
Cabling connecting port	Pressure proof packing gland <G3/4> (Compatible cables $\phi$ 9.5 - 13.0mm in outer diameter)
Tube connecting port*1	Rc1/8 (O.D $\phi$ 6-1t) (material: PP or Bs or SUS)
Operating temperature range*2	-20 - +53°C (at a constant condition)
Operating humidity range	Below 95%RH (Non-condensing)
Structure	Wall mount type, 2B(50A) pipe attachable
Explosion-proof structure	Flame-proof enclosures
Explosion-proof class	II 2G Ex db IIC T4 Gb (ATEX) / Ex db IIC T4 Gb (IECEx)
Explosion-proof approval No.	DNV 21 ATEX 64381X (ATEX) / IECEx DNV 21.0052X (IECEx)
Outer dimension	Approx. 78 (W) $\times$ 163 (H) $\times$ 123 (D) mm (Fixing brackets excluded)
Weight	Approx. 1.0kg
Outer color	Munsell 7.5BG5/2 Name plate : yellow

\*1 Please specify your request when ordering.

\*2 The ambient temperature range which maintain a capability of explosion proof of the label on the detector is -40 - +53°C. However, the available operating temperature range is -20 - +53°C.

### Outline Drawings



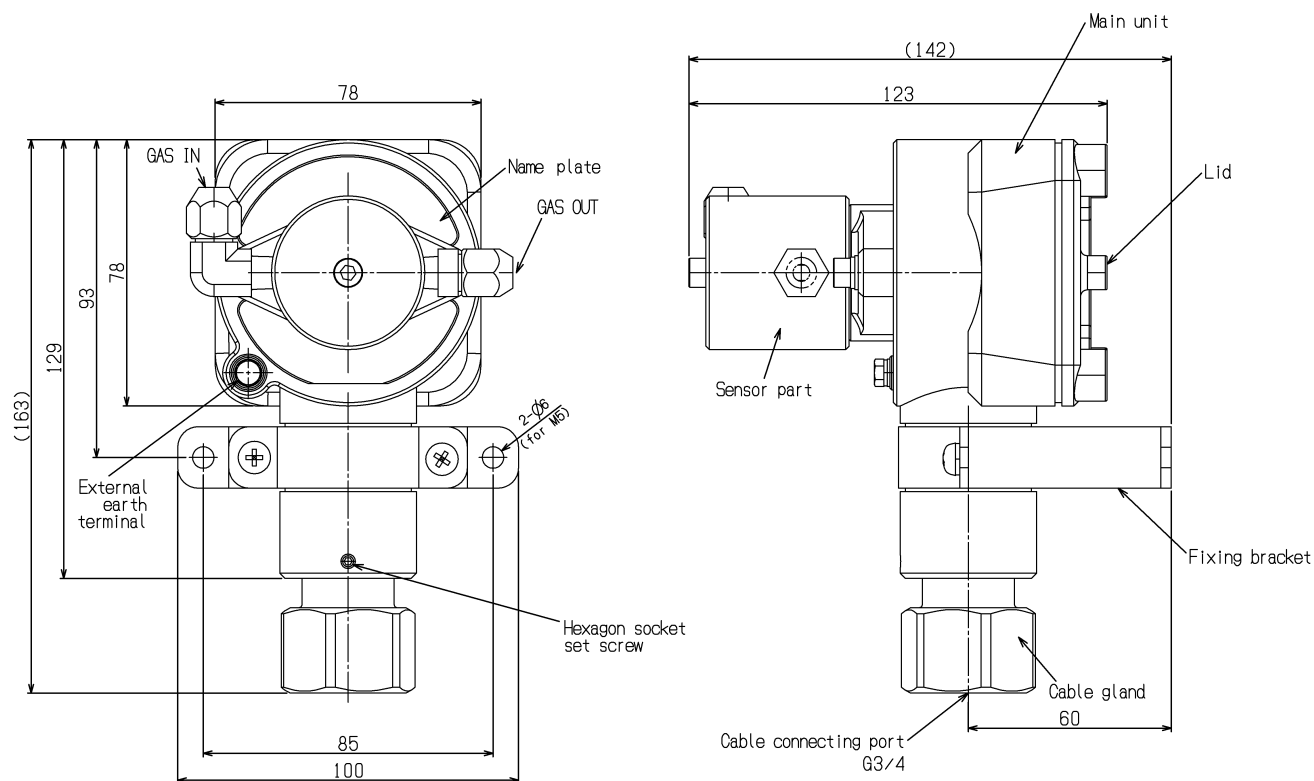
## GAS DETECTOR UNIT GD-A80DS (ATEX - IECEx) SPECIFICATION

Model	GD-A80DS
Principle of detection	Hot wire semiconductor method
Detection gas	Combustible gas / Toxic gas in the air
Detection method	Suction type (introduced by an external pump unit)
Flow rate	0.8 - 2L/min
Transmission cable	CVVS 1.25mm <sup>2</sup> or 2mm <sup>2</sup> - 4-core
Cabling connecting port	Pressure proof packing gland <G3/4> (Compatible cables $\phi$ 9.5 - 13.0mm in outer diameter)
Tube connecting port*1	Rc1/8 (O.D $\phi$ 6-1t) (material: PP or Bs or SUS)
Operating temperature range*2	-20 - +53°C (at a constant condition)
Operating humidity range	Below 95%RH (Non-condensing)
Structure	Wall mount type, 2B(50A) pipe attachable
Explosion-proof structure	Flame-proof enclosures
Explosion-proof class	II 2G Ex db IIC T4 Gb (ATEX) / Ex db IIC T4 Gb (IECEx)
Explosion-proof approval No.	DNV 21 ATEX 64381X (ATEX) / IECEx DNV 21.0052X (IECEx)
Outer dimension	Approx. 78 (W) $\times$ 163 (H) $\times$ 123 (D) mm (Fixing brackets excluded)
Weight	Approx. 1.0kg
Outer color	Munsell 7.5BG5/2 Name plate : blue

\*1 Please specify your request when ordering.

\*2 The ambient temperature range which maintain a capability of explosion proof of the label on the detector is -40 - +53°C. However, the available operating temperature range is -20 - +53°C.

### Outline Drawings





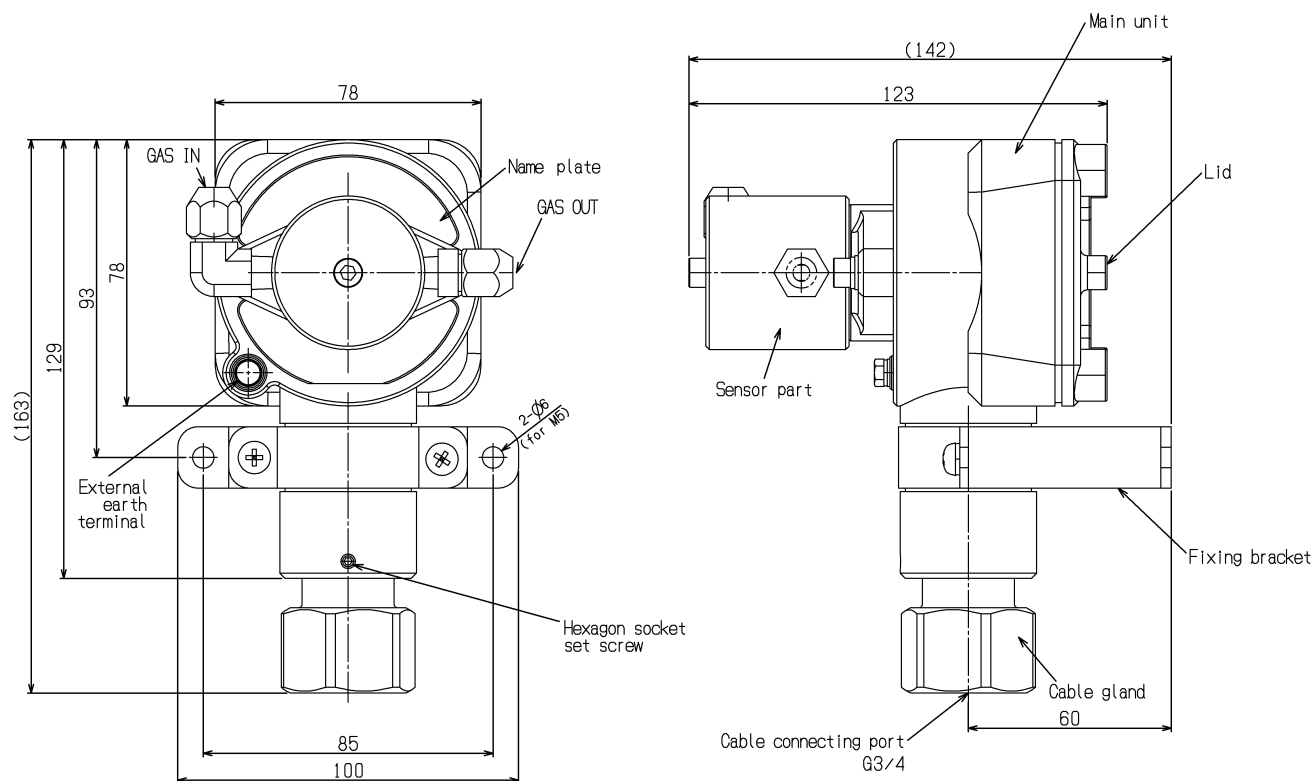
## GAS DETECTOR UNIT GD-A80DN (ATEX - IECEx) SPECIFICATION

Model	GD-A80DN
Principle of detection	Thermal conductivity method
Detection gas	Combustible gases in the air/inert gas
Detection method	Suction type (introduced by an external pump unit)
Flow rate	0.8 - 2L/min
Transmission cable	CVVS 1.25mm <sup>2</sup> or 2mm <sup>2</sup> - 4-core
Cabling connecting port	Pressure proof packing gland <G3/4> (Compatible cables $\phi$ 9.5 - 13.0mm in outer diameter)
Tube connecting port*1	Rc1/8(O.D $\phi$ 6-1t) (material: PP or Bs or SUS)
Operating temperature range*2	-20 - +53°C (at a constant condition)
Operating humidity range	Below 95%RH (Non-condensing)
Structure	Wall mount type, 2B(50A) pipe attachable
Explosion-proof structure	Flame-proof enclosures
Explosion-proof class	II 2G Ex db IIC T4 Gb(ATEX)/Ex db IIC T4 Gb(IECEx)
Explosion-proof approval No.	DNV 21 ATEX 64381X(ATEX)/IECEx DNV 21.0052X(IECEx)
Outer dimension	Approx. 78(W) × 163(H) × 123(D)mm (Fixing brackets excluded)
Weight	Approx. 1.0kg
Outer color	Munsell 7.5BG5/2 Name plate : red

\*1 Please specify your request when ordering.

\*2 The ambient temperature range which maintain a capability of explosion proof of the label on the detector is -40 - +53°C. However, the available operating temperature range is -20 - +53°C.

### Outline Drawings



## GAS DETECTOR UNIT GD-A80D-70 (ATEX - IECEx) SPECIFICATION

Model	GD-A80D-70	
Principle of detection	Catalytic combustion method	
Sensor	HW-6212	HW-6239
Detection gas	Combustible gas (Methane excluded), Solvent vapor	Methane, Isobutane, Hydrogen
Detection method	Suction type (introduced by an external pump unit)	
Flow rate	0.8 - 2L/min	
Transmission cable	EM CCE/F 1.25mm <sup>2</sup> or 2mm <sup>2</sup> - 4-core	
Cabling connecting port	Pressure proof packing gland <G3/4> (Compatible cables $\phi$ 9.5 - 13.0mm in outer diameter)	
Tube connecting port*1	Rc1/8 (O.D $\phi$ 6-1t) <material: PP or Bs or SUS>	
Operating temperature range	-10 - +100°C (at a constant condition)*2	-40 - +70°C (at a constant condition)
Operating humidity range	Below 95%RH (Non-condensing)	
Structure	Wall mount type, 2B(50A) pipe attachable	
Explosion-proof structure	Flame-proof enclosures	
Explosion-proof class	II 2G Ex db II C T4 Gb (ATEX)/Ex db II C T4 Gb (IECEx)	
Explosion-proof approval No.	DNV 21 ATEX 64381X (ATEX) /IECEx DNV 21.0052X (IECEx)	
Outer dimension	Approx. 78 (W) × 163 (H) × 123 (D) mm (Fixing brackets excluded)	
Weight	Approx. 1.0kg	
Outer color	Munsell 7.5BG5/2 Name plate : red	

\*1 Please specify your request when ordering.

\*2 The ambient temperature range which maintain a capability of explosion proof of the label on the detector is -40 - +70°C. However, the available operating temperature range is -10 - +100°C.

### Outline Drawings

