

DP-0 SERIES

勝特力材料 886-3-5753170
 勝特力电子(上海) 86-21-34970699
 勝特力电子(深圳) 86-755-83298787
[Http://www.100y.com.tw](http://www.100y.com.tw)

Related Information

■ General terms and conditions..... F-3
 ■ Glossary of terms..... P.1563~

■ Selection guide P.699~
 ■ General precautions P.1566



panasonic.net/id/pidsx/global

CE

LCD
 123
 Digital

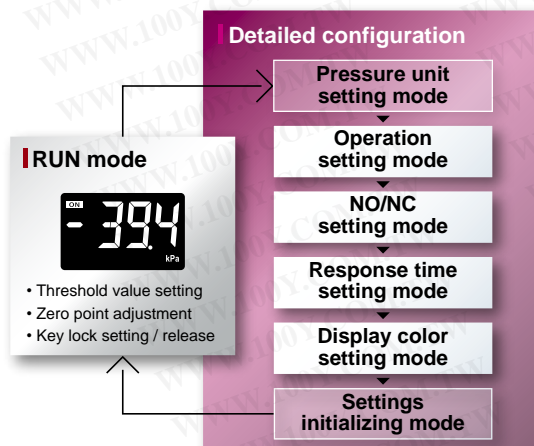
Simple and easy operation

Redesigned for improvement of pressure sensor usability from ground up

Simple & easy operation

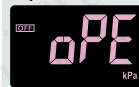
Two levels of configuration for easy operation of essential functions

The "RUN mode" is for setting the threshold value, the zero point adjustment and key lock/release setting, and the "detailed configuration" allows the basic settings of sensor operation. The two-level configuration enables an easy and immediate use of the product.



Main menu for detailed configuration

Operation setting mode*



Select from EASY mode, hysteresis mode or window comparator mode.

NO/NC setting mode



Set the comparative output operation to NO or NC.

Response time setting mode



Select the response time from 2.5 ms, 25 ms or 250 ms.

Display color setting mode



Select the comparative output ON/OFF display color and the normal display color from red or white.

* Refer to p.705 for details of operation setting mode.

Functional design

Black body for enhanced visibility of LCD display

The unit body is completely black to make the LCD display easier to see.

Firm and crisp clicking feel

The buttons offer firm and crisp clicking feel for smooth and reliable setting operations.

Crisp
 clicking feel



FIBER SENSORS

LASER SENSORS

PHOTOELECTRIC SENSORS

MICRO PHOTOELECTRIC SENSORS

AREA SENSORS

SAFETY LIGHT CURTAINS / SAFETY COMPONENTS

PRESSURE / FLOW SENSORS

INDUCTIVE PROXIMITY SENSORS

PARTICULAR USE SENSORS

SENSOR OPTIONS

SIMPLE WIRE-SAVING UNITS

WIRE-SAVING SYSTEMS

MEASUREMENT SENSORS

STATIC CONTROL DEVICES

LASER MARKERS

PLC

HUMAN MACHINE INTERFACES

ENERGY MANAGEMENT SOLUTIONS

FA COMPONENTS

MACHINE VISION SYSTEMS

UV CURING SYSTEMS

APPLICATIONS

Suction confirmation for electronic parts



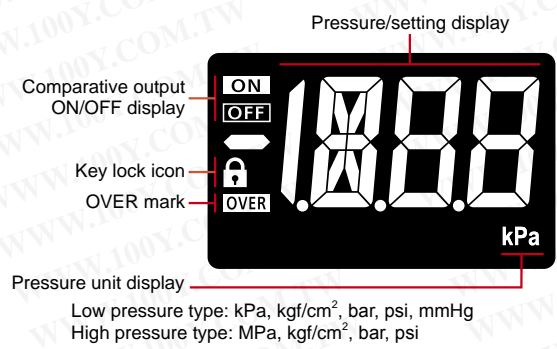
Reference pressure check



High-quality LCD display

Simple and highly visible display

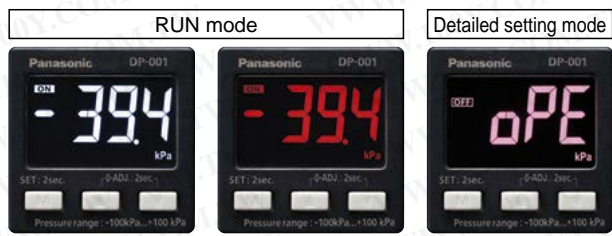
The LCD offers a wide viewing angle so the display is easy to see even from an oblique angle. The alphanumeric display (12-segment display), the key lock mark and the OVER mark are also clear and easy to see.



Selection of display color from red or white

The display color can be selected from red or white in accordance with the output operation. Since the detailed setting mode display is pink (unchangeable), the pressure sensor status can be easily recognized by color.

| Mode Display color setting | RUN mode | | Detailed mode |
|----------------------------------|-----------------------|------------------------|---------------|
| | Comparative output ON | Comparative output OFF | |
| Red for ON, white for OFF | Red | White | Pink |
| White for ON, red for OFF | White | Red | |
| Red in normal status | Red | | |
| White in normal status | White | | |

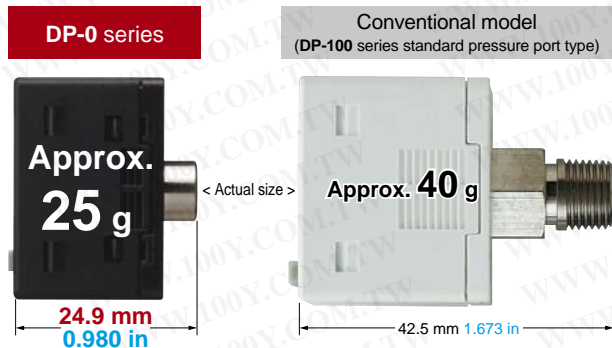


Compact & light weight design

Extra-short depth and light weight

The unit body measures only 24.9 mm 0.980 in in depth to allow installation in a shallow space. The main unit weighs only about 25 g. The lightweight unit means minimal load when mounted on a moving part such as a robot arm.

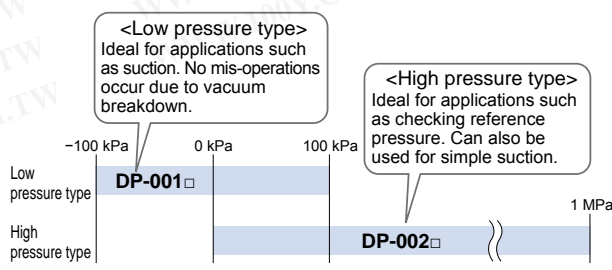
| | | |
|--|------------------|-------------------------------|
| Comparison with conventional model (DP-100 series standard pressure port type) | Depth dimension | : Approx. 41% shorter! |
| | Main unit weight | : Approx. 38% lighter! |



Low pressure type and high pressure type available

Two types to choose from depending on your application

The low pressure type can be used with positive or negative pressure, while the high pressure type is suitable for positive pressure of up to 1 MPa.



Selection Guide

Pressure/ Digital Display

Pressure/ Head-separated

Flow

DP-0

DP-100

DP-M

FIBER
SENSORSLASER
SENSORSPHOTOELECTRIC
SENSORSMICRO
PHOTOELECTRIC
SENSORSAREA
SENSORSSAFETY LIGHT
CURTAINS /
SAFETY COMPONENTS**PRESSURE /
FLOW
SENSORS**INDUCTIVE
PROXIMITY
SENSORSPARTICULAR
USE SENSORSSENSOR
OPTIONSSIMPLE
WIRE-SAVING
UNITSWIRE-SAVING
SYSTEMSMEASUREMENT
SENSORSSTATIC
CONTROL
DEVICESLASER
MARKERS

PLC

HUMAN MACHINE
INTERFACESENERGY
MANAGEMENT
SOLUTIONS

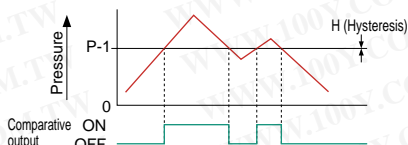
FA COMPONENTS

MACHINE VISION
SYSTEMSUV CURING
SYSTEMSSelection
GuidePressure/
Digital DisplayPressure/
Head-separated

Flow

DP-0**DP-100****DP-M****Three output modes****Equipped with three output modes for use in a wide range of applications****(1) EASY mode**

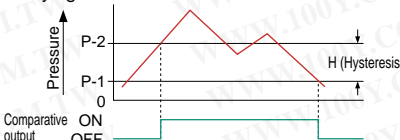
This mode is used for comparative output ON/OFF control.



*H: 4 digits (fixed) (10 digits or more when using psi unit)

(2) Hysteresis mode

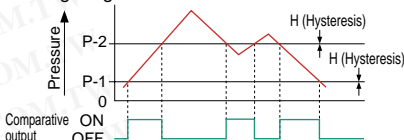
This mode is used for setting comparative output hysteresis to the desired level and for carrying out ON/OFF control.



*H: 2 digits or more (5 digits or more when using psi unit)

(3) Window comparator mode

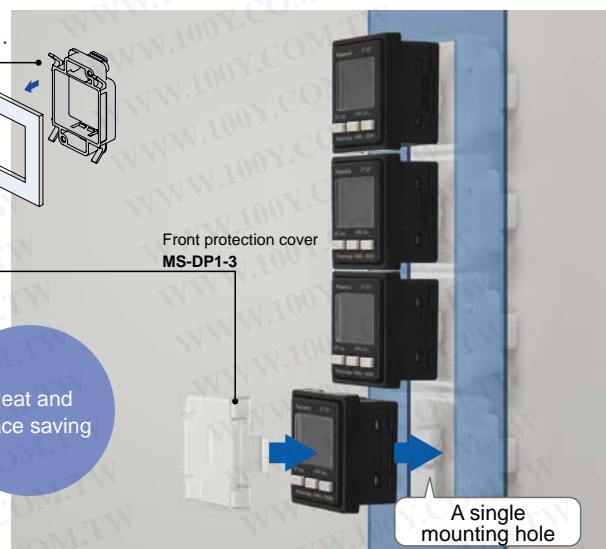
This mode is used for setting comparative output ON and OFF at pressures within the setting range.



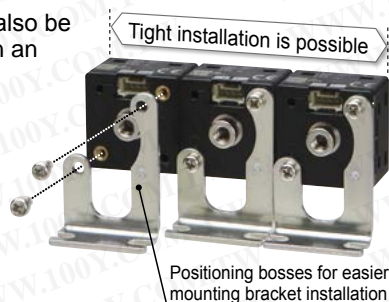
*H: 4 digits or more (10 digits or more when using psi unit)

Designed for easy installation**Panel mounting bracket****Tight installation is possible**

An exclusive mounting bracket that is suitable for 1 to 3 mm **0.039 to 0.118 in** panel thickness is available.

**Exclusive mounting bracket****Supports tight installation**

Space savings can also be achieved even when an L-shaped mounting bracket is used.

**Connection cable****Cable can be connected with one-touch**

Connector attached cable (2 m **6.562 ft**), as an accessory, can be connected easily with one-touch connection.



* Options: 1 m **3.281 ft** / 3 m **9.843 ft** / 5 m **16.404 ft** types are also available.

Types without connector attached cable are also available**DP-0□-J**

Commercially-available connectors can be used for cable connections. Cables in required length can be used, so this contributes to reduction in waste of unwanted cables.



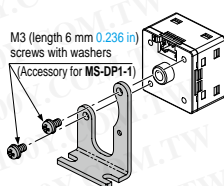
* Refer to p.706 for recommended commercially-available connectors.

MS-DP1-1

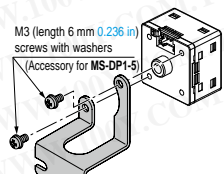
Ceiling mounting



Floor mounting

**MS-DP1-5**

Rear mounting



ORDER GUIDE**Model No.**DP-00 **1** - **P** - **J****Rated pressure range**


- 1** : -100.0 to +100.0 kPa (Low pressure type)
2 : 0.000 to +1.000 MPa (High pressure type)

Cable

- None : Connector attached cable 2 m **6.562 ft**
J : Type without connector attached cable

Comparative output

- None : NPN output type
P : PNP output type

| Type | Appearance | Rated pressure range | Model No. | Pressure port | Comparative output |
|--------------------|---|----------------------|-----------------|------------------|-------------------------------|
| Low pressure type |  *CN-14A-C2 (Connector attached cable 2 m 6.562 ft) is attached. | -100.0 to +100.0 kPa | DP-001 | M5 female thread | NPN open-collector transistor |
| | | | DP-001-P | | PNP open-collector transistor |
| High pressure type | | 0.000 to +1.000 MPa | DP-002 | | NPN open-collector transistor |
| | | | DP-002-P | | PNP open-collector transistor |

***CN-14A-C2**
 (Connector attached cable
 2 m **6.562 ft**) is attached.

Type without connector attached cable

Type without connector attached cable **CN-14A-C2** is available. When ordering this type, suffix "-J" to the Model No.
 (e.g.) Type without connector attached cable of **DP-001-P** is "**DP-001-P-J**"

Accessory

- **CN-14A-C2** (Connector attached cable 2 m **6.562 ft**)

**OPTIONS**

| Designation | Model No. | Description | |
|--|------------------|--|---|
| Connector attached cable | CN-14A-C1 | Length: 1 m 3.281 ft | 0.2 mm ² 4-core cabtyre cable with connector on one end Cable outer diameter: ø3.7 mm ø0.146 in |
| | CN-14A-C2 (Note) | Length: 2 m 6.562 ft | |
| | CN-14A-C3 | Length: 3 m 9.843 ft | |
| | CN-14A-C5 | Length: 5 m 16.404 ft | |
| Connector attached cable (Bending-resistant cable) | CN-14A-R-C1 | Length: 1 m 3.281 ft | 0.2 mm ² 4-core bending-resistant cabtyre cable with connector on one end Cable outer diameter: ø3.7 mm ø0.146 in |
| | CN-14A-R-C2 | Length: 2 m 6.562 ft | |
| | CN-14A-R-C3 | Length: 3 m 9.843 ft | |
| | CN-14A-R-C5 | Length: 5 m 16.404 ft | |
| Connector | CN-14A | Set of 10 housings and 40 contacts | |
| Sensor mounting bracket | MS-DP1-1 | Allows sensors to be installed on the flooring or ceiling. Multiple sensors can also be mounted closely. | |
| | MS-DP1-5 | Allows sensors to be installed on the wall. Multiple sensors can also be mounted closely. | |
| Panel mounting bracket | MS-DP1-8 | Allows installation to panels with thickness of 1 to 3 mm 0.039 to 0.118 in. Multiple sensors can also be mounted closely. | |
| Front protection cover | MS-DP1-3 | Protects the adjustment surfaces of sensors. (Can be attached when using the panel mounting bracket) | |
| Conversion bushing | MS-DP1-7 | Pressure port can be converted to Rc¼ female thread. | |

Note: The connector attached cable **CN-14A-C2** is supplied with the **DP-0** series.

Recommended connector

Contact: SPHD-001T-P0.5,
 Housing: PAP-04V-S
 (Manufactured by J.S.T. Mfg. Co., Ltd.)

Recommended crimping tool

Model No.: YC-610R
 (Manufactured by J.S.T. Mfg. Co., Ltd.)

Recommended connector (e-CON)

Applicable connector: 37104-3122-000 FL
 (Manufactured by 3M Japan Limited)

Note: Contact the manufacturer for details of the recommended products.

FIBER SENSORS

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UV CURING SYSTEMS

SELECTION GUIDE

Pressure/ Digital Display

Pressure/ Head-separated

Flow

DP-0

DP-100

DP-M

SPECIFICATIONS

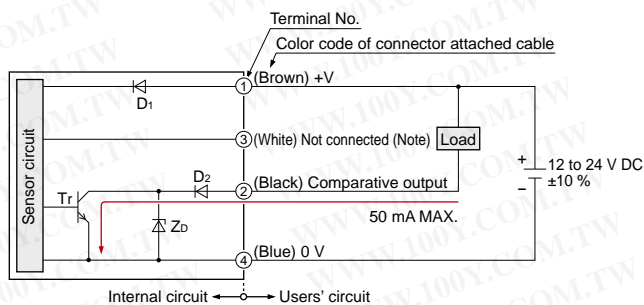
| Item | Model No. | Type | Low pressure | High pressure | |
|---|--------------------------|------------|--|---|--------------------------------|
| | | NPN output | DP-001 | DP-002 | |
| | | PNP output | DP-001-P | DP-002-P | |
| CE marking directive compliance | | | EMC Directive, RoHS Directive | | |
| Type of pressure | | | Gauge pressure | | |
| Rated pressure range | | | -100.0 to +100.0 kPa | 0.000 to +1.000 MPa | |
| Set pressure range | | | $\left\{ \begin{array}{l} -101.0 \text{ to } +101.0 \text{ kPa} \\ -1.030 \text{ to } +1.030 \text{ kgf/cm}^2 \\ -1.010 \text{ to } +1.010 \text{ bar} \\ -14.65 \text{ to } +14.65 \text{ psi} \\ -756 \text{ to } +756 \text{ mmHg} \end{array} \right\}$ | $\left\{ \begin{array}{l} -0.010 \text{ to } +1.010 \text{ MPa} \\ -0.1 \text{ to } +10.30 \text{ kgf/cm}^2 \\ -0.1 \text{ to } +10.10 \text{ bar} \\ -0.1 \text{ to } +146.5 \text{ psi} \end{array} \right\}$ | |
| Pressure withstandability | | | 500 kPa | 1.5 MPa | |
| Applicable fluid | | | Air, non-corrosive gas | | |
| Selectable unit | | | Low pressure type: kPa, kgf/cm ² , bar, psi, mmHg High pressure type: MPa, kgf/cm ² , bar, psi | | |
| Supply voltage | | | 12 to 24 V DC ±10 % Ripple P-P 10 % or less | | |
| Power consumption | | | 30 mA or less | | |
| Comparative output | | | <NPN output type> NPN open-collector transistor <ul style="list-style-type: none">• Maximum sink current: 50 mA• Applied voltage: 30 V DC or less (between comparative output and 0 V)• Residual voltage: 2 V or less (at 50 mA sink current) | <PNP output type> PNP open-collector transistor <ul style="list-style-type: none">• Maximum source current: 50 mA• Applied voltage: 30 V DC or less (between comparative output and +V)• Residual voltage: 2 V or less (at 50 mA source current) | |
| | | | Output operation | Selectable either NO or NC by key operation | |
| | | | Hysteresis | Minimum 2 digits (variable) | |
| | | | Repeatability | ±0.2 % F.S. (within ±4 digits) | ±0.4 % F.S. (within ±4 digits) |
| | | | Response time | 2.5 ms, 25 ms, 250 ms, selectable by key operation | |
| | | | Short-circuit protection | Incorporated | |
| Display | | | 3 + 1/2 digits, 3-color (white / red / pink) LCD display (Display update period: 250 ms) | | |
| Displayable pressure range | | | $\left\{ \begin{array}{l} -101.0 \text{ to } +101.0 \text{ kPa} \\ -1.030 \text{ to } +1.030 \text{ kgf/cm}^2 \\ -1.010 \text{ to } +1.010 \text{ bar} \\ -14.65 \text{ to } +14.65 \text{ psi} \\ -756 \text{ to } +756 \text{ mmHg} \end{array} \right\}$ | $\left\{ \begin{array}{l} -0.010 \text{ to } +1.010 \text{ MPa} \\ -0.1 \text{ to } +10.30 \text{ kgf/cm}^2 \\ -0.1 \text{ to } +10.10 \text{ bar} \\ -0.1 \text{ to } +146.5 \text{ psi} \end{array} \right\}$ | |
| Environmental resistance | Protection | | IP40 (IEC) | | |
| | Ambient temperature | | 0 to +50 °C +32 to +122 °F (No dew condensation allowed), Storage: -10 to +60 °C +14 to +140 °F | | |
| | Ambient humidity | | 35 to 85 % RH, Storage: 35 to 85 % RH | | |
| | Voltage withstandability | | 500 V AC for one min. between all supply terminals connected together and enclosure | | |
| | Insulation resistance | | 50 MΩ or more with 500 V DC megger between all supply terminals connected together and enclosure | | |
| | Vibration resistance | | 10 to 150 Hz frequency, double amplitude 0.75 mm 0.030 in or maximum acceleration 49 m/s ² , in X, Y and Z directions for two hours each | | |
| | Shock resistance | | 100 m/s ² acceleration (10 G approx.) in X, Y and Z directions three times each | | |
| Pollution degree | | | 2 | | |
| Overvoltage category | | | I | | |
| Usable altitude | | | 2,000 m 6,562 ft or less | | |
| Temperature characteristics (+20 °C +68 °F standard) | | | +10 to +40 °C +50 to +104 °F : Within ±1 % F.S. 0 to +50 °C +32 to +122 °F : Within ±2.5 % F.S. | +10 to +40 °C +50 to +104 °F : Within ±2 % F.S. 0 to +50 °C +32 to +122 °F : Within ±5 % F.S. | |
| Grounding method | | | Floating | | |
| Pressure port | | | M5 female thread | | |
| Material | | | Enclosure: PBT (glass fiber reinforced), LCD display: Acrylic, Pressure port: Brass (nickel plated) Mounting threaded part: Brass, O-ring: Nitrile rubber (NBR), Key section: Polycarbonate | | |
| Weight | | | 25 g approx. | | |
| Accessory | | | CN-14A-C2 (Connector attached cable 2 m 6.562 ft): 1 pc. | | |

Note: Where measurement conditions have not been specified precisely, the conditions used were an ambient temperature of +20 °C **+68 °F**.

I/O CIRCUIT AND WIRING DIAGRAMS

NPN output type

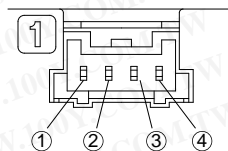
I/O circuit diagram



Note: Open or, connect to 0 V.

Symbols...D1, D2: Reverse supply polarity protection diode
Zd: Surge absorption zener diode
Tr: NPN output transistor

Terminal arrangement diagram

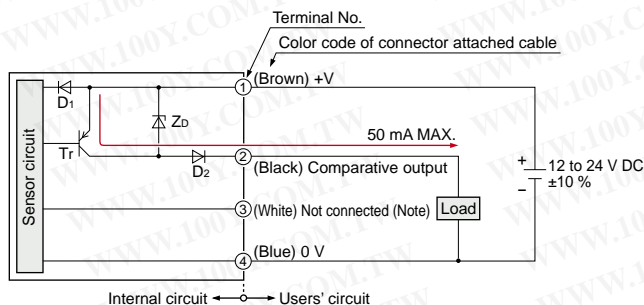


| Terminal No. | Designation |
|--------------|----------------------|
| ① | +V |
| ② | Comparative output |
| ③ | Not connected (Note) |
| ④ | 0V |

Note: Open or, connect to 0 V.

PNP output type

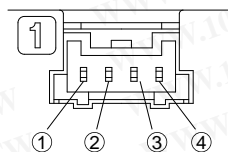
I/O circuit diagram



Note: Open or, connect to 0 V.

Symbols...D1, D2: Reverse supply polarity protection diode
Zd: Surge absorption zener diode
Tr: PNP output transistor

Terminal arrangement diagram



| Terminal No. | Designation |
|--------------|----------------------|
| ① | +V |
| ② | Comparative output |
| ③ | Not connected (Note) |
| ④ | 0V |

Note: Open or, connect to 0 V.

FIBER
SENSORS

LASER
SENSORS

PHOTO-
ELECTRIC
SENSORS

MICRO
PHOTO-
ELECTRIC
SENSORS

AREA
SENSORS

SAFETY LIGHT
CURTAINS/
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PRESSURE /
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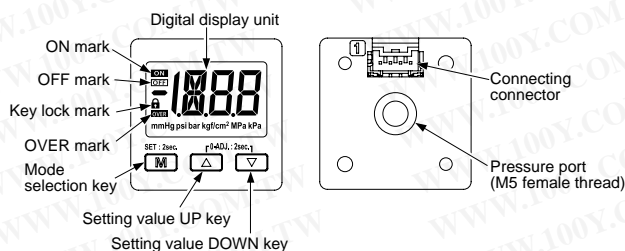
PRECAUTIONS FOR PROPER USE

Refer to p.1566 for general precautions.



- 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.
- This product is used for non-corrosive gas. The product shall not be used for liquid or corrosive gas. Never use fluids having inflammability, toxicity, etc., that affect the human body, either.

Part description

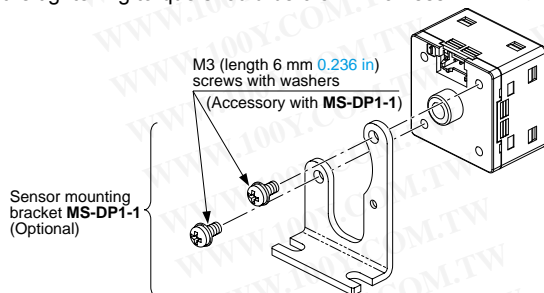


Piping

- When using this product, connect a joint available in the market to the pressure port. At the time, the tightening torque should be 1.0 N·m or less.

Mounting

- Use sensor mounting bracket **MS-DP1-1** prepared independently. When mounting this product with sensor mounting bracket, etc., the tightening torque should be 0.5 N·m or less.



- Panel mounting bracket **MS-DP1-8** (optional) and front protection cover **MS-DP1-3** (optional) are available.
- For the method for mounting panel mounting bracket, refer to the instruction manual that came with the **MS-DP1-8**.

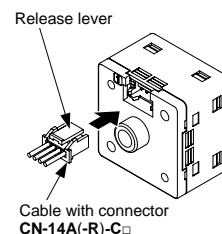
Wiring

- Make sure that the power supply is OFF while performing the wiring operation.
- Verify that the supply voltage variation is within the rating.
- 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.
- 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.
- When extending the cable, use a cable whose conductor cross-section area is 0.3 mm² or more. The cable can be extended to up to 10 m **32.808 ft** in total length.
- 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.
- Do not apply stress directly to the connection cable leader or to the connector.

Connection

How to connect

- Insert the cable with connector **CN-14A(-R)-C** into this product's connection connector section as shown in the right figure.



How to disconnect

- Pressing the release lever of the cable with connector, pull out the connector.

Note: Do not pull by holding the cable without pressing the release lever, as this can cause cable break or connector break.

Factory setting

| Type | Low pressure type | High pressure type |
|-------------------|-----------------------------|--------------------|
| Operation setting | EASY mode | |
| NO/NC setting | NC | NO |
| Threshold value | -50.0 | 0.500 |
| Pressure unit | kPa | MPa |
| Display color | Red when ON, White when OFF | |
| Response speed | 2.5 ms | |

Error indication

| Error indication | Description | Remedy |
|------------------|---|---|
| | The load is short-circuited causing an overcurrent to flow. | Turn OFF the power and check the load. |
| | Pressure is applied during zero point adjustment. | Applied pressure at the pressure port should be brought to atmospheric pressure and zero-point adjustment should be done again. |
| | The applied pressure exceeds the upper limit of the displayed pressure range. | Applied pressure range should be brought within the rated pressure range. |
| | The applied pressure exceeds the lower limit (back pressure) of the displayed pressure range. | |

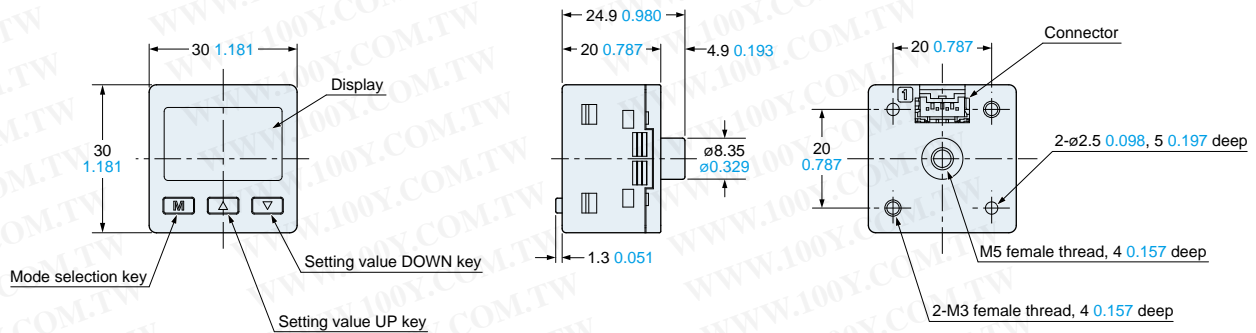
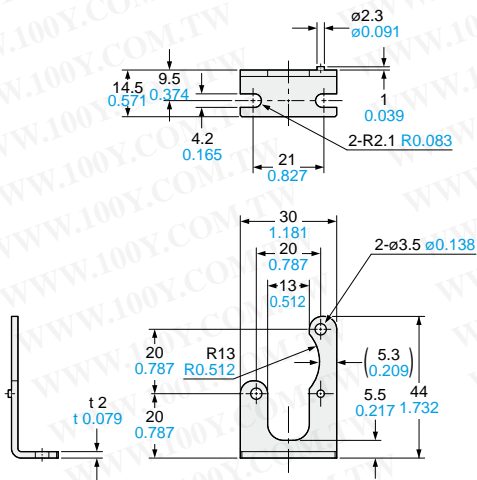
When other error message is displayed, contact us.

Others

- This product has been developed / produced for industrial use only.
- The product shall be used only within the rated pressure range.
- Do not apply pressure exceeding the pressure resistance. Otherwise, destruction of diaphragm occurs, preventing the product to perform normal operation.
- Do not use during the initial transient time (0.5 sec.) after the power supply is switched ON.
- The specification may not be satisfied in a strong magnetic field.
- This product is suitable for indoor use only.
- Take care that strong impact such as fall is not given to this product. Otherwise, it may be destroyed.
- Avoid dust, dirt, and steam.
- Take care that the product does not come into contact with organic solvents such as thinner.
- Take care that the product does not come into contact with oil or grease.
- Take care that the product does not come into contact with strong acid or alkaline.
- Do not insert wire into the pressure port. Otherwise, destruction of diaphragm occurs, preventing the product to perform normal operation.

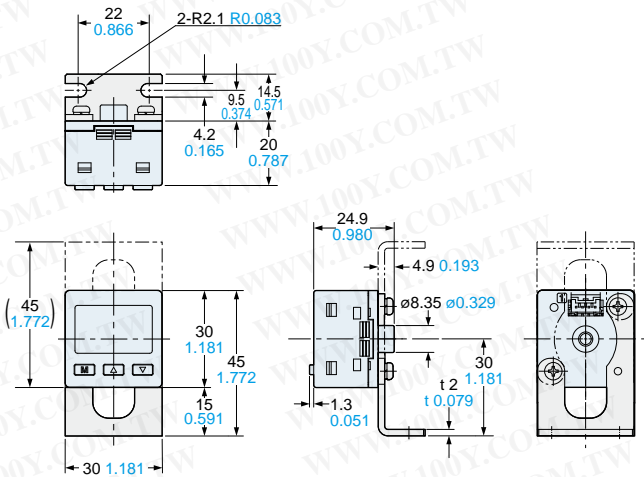
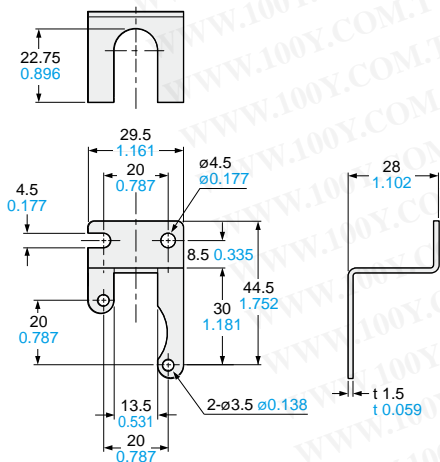
DIMENSIONS (Unit: mm in)

The CAD data can be downloaded from the website.

DP-00**Sensor****MS-DP1-1****Sensor mounting bracket (Optional)**

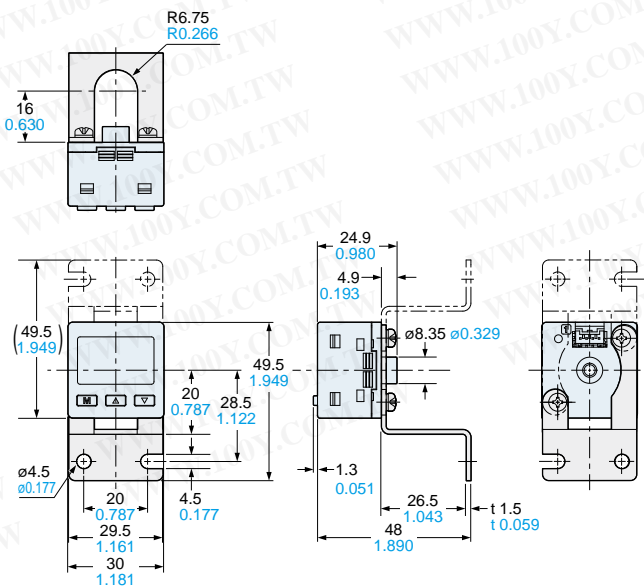
Material: Cold rolled carbon steel (SPCC)
(Trivalent uni-chrome plated)

Two M3 (length 6 mm 0.236 in) screws with washers are attached.

Assembly dimensions**MS-DP1-5****Sensor mounting bracket (Optional)**

Material: Stainless steel (SUS304)

Two M3 (length 6 mm 0.236 in) screws with washers are attached.

Assembly dimensions

FIBER SENSORS

LASER SENSORS

PHOTO-ELECTRIC SENSORS

MICRO PHOTO-ELECTRIC SENSORS

AREA SENSORS

SAFETY LIGHT CURTAINS / SAFETY COMPONENTS

PRESSURE / FLOW SENSORS

INDUCTIVE PROXIMITY SENSORS

PARTICULAR USE SENSORS

SENSOR OPTIONS

SIMPLE WIRE-SAVING UNITS

WIRE-SAVING SYSTEMS

MEASURE-MENT SENSORS

STATIC CONTROL DEVICES

LASER MARKERS

PLC

HUMAN MACHINE INTERFACES

ENERGY MANAGEMENT SOLUTIONS

FA COMPONENTS

MACHINE VISION SYSTEMS

UV CURING SYSTEMS

Selection Guide

Pressure/ Digital Display

Pressure/ Head-separated

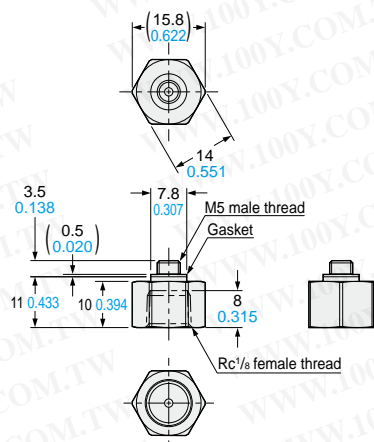
Flow

DP-0**DP-100****DP-M**

DIMENSIONS (Unit: mm in)

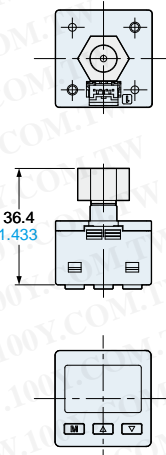
MS-DP1-7

Conversion bushing (Optional)



Material: Brass (Nickel plated)
Weight: 10 g approx.

Assembly dimensions

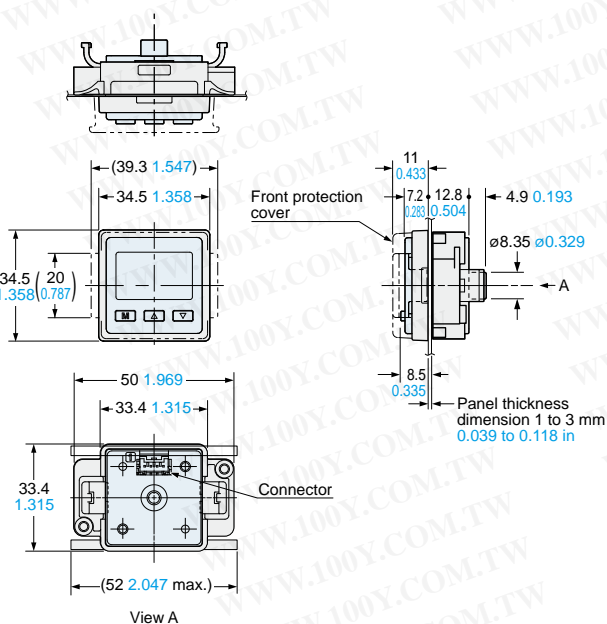


MS-DP1-8 MS-DP1-3

Panel mounting bracket (Optional). Front protection cover (Optional)

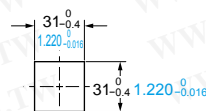
Mounting drawing with DP-00□

Panel cut-out dimensions

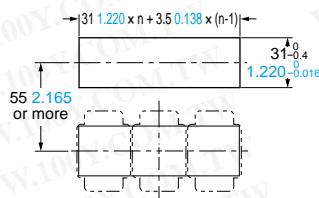


Material: Polyacetal (Panel mounting bracket)
Polycarbonate (Front protection cover)

When 1 unit is installed

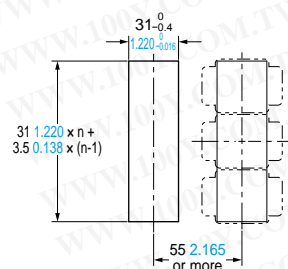


When “n” units are installed horizontally in series



Note: The panel thickness should be 1 to 3 mm 0.039 to 0.118 in.

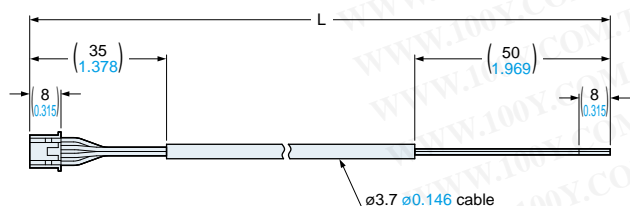
When “n” units are installed vertically in series



Note: The panel thickness should be 1 to 3 mm 0.039 to 0.118 in.

CN-14A(-R)-C□

Connector attached cable (Optional, **CN-14A-C2** is attached to the sensor)



| Model No. | Cable length L (mm in) |
|----------------------|------------------------|
| CN-14A(-R)-C1 | 1,000 39.370 |
| CN-14A(-R)-C2 | 2,000 78.740 |
| CN-14A(-R)-C3 | 3,000 118.110 |
| CN-14A(-R)-C5 | 5,000 196.850 |