LASER SENSORS

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MICRO PHOTOELECTRIC SENSORS

AREA SENSORS

LIGHT CURTAINS/
SAFETY COMPONENTS

INDUCTIVE PROXIMITY SENSORS PARTICULAR USE SENSORS

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MEASUREMENT SENSORS

STATIC ELECTRICITY PREVENTION DEVICES

> LASER MARKERS

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ENERGY CONSUMPTION

FA COMPONENTS

MACHINE VISION SYSTEMS

UV CURING SYSTEMS

COMPONENTS

Head-separated Dual Display Digital Pressure Sensor For Liquid & Gas

DPC-L100 SERIES DPH-L100 SERIES

Related Information









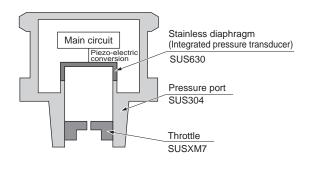
High-precision detection of fluid and air pressure

Allows high-precision fluid pressure management

The analog voltage output of the sensor head can achieve a high-precision sensing of ± 1 % F.S. (at a normal temperature of 23 °C 73.4 °F).

Oil-less single-layer diaphragm

Oil is not encapsulated in the diaphragm of the pressure sensing portion. No need to worry that oil will leak into the medium when the sensor head is damaged.



Compact stainless body

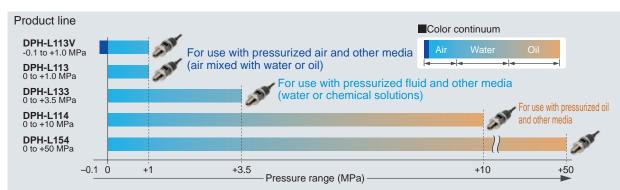
Compact size of HEX. 22×59 mm 0.866×2.323 in (excluding the screws). The body is also stainless so it can be used in various environments.



Strong against pressure surges from throttle loading

Controls pressure surges and reduces sensor failure.





Selection Guide Pressure/ Digital Display Pressure/ Head-separated

DPC-L100/ DPH-L100 DPS-400/ DPH-100 DPC-100/ DPH-100

Ramco National

800-280-6933 | nsales@ramcoi.com

APPLICATIONS







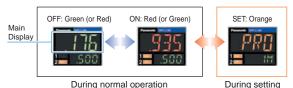
The dual display means that the "current value" and the "threshold value", it makes direct setting of threshold value

Equipped with a 30 mm 1.181 in square compact-sized dual display. Because the current value and the threshold value can be checked at the same time, the threshold value can be set and checked smoothly without having to switch screen modes. ON / OFF operations are still carried out while the threshold values are being set, so setting to the same sensitivity as dial control-type sensors is possible. And naturally a key lock function is also equipped.



3-color display (Red, Green, Orange)

The main display changes color in line with changes in the status of output ON / OFF operation, and it also changes color while setting is in progress. The sensor status can therefore be understood easily, and operating errors can be reduced.



Equipped with new functions optimal for fluid pressure

Equipped with functions optimal for fluid pressure management while inheriting the operability of the **DP-100** series.

Peak / Bottom hold 2 (output-linked)

When output turns on (or off), the controller's digital display (current value) is reset and peak / bottom hold operation starts. For example, this functionality could be used to verify the peak pressure for an industrial press each time a workpiece is loaded.

Current value hold

The controller's digital display (current value) is held while external input is on. By activating external input the moment you wish to capture the pressure value, you can pause and verify the display.

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MICRO

PHOTOELECTRIC SENSORS

AREA SENSORS

LIGHT CURTAINS / SAFETY

COMPONENTS PRESSURE /

SENSORS INDUCTIVE PROXIMITY SENSORS

PARTICULAR USE SENSORS

SENSOR OPTIONS

SIMPLE WIRE-SAVING

WIRE-SAVING UNITS

WIRE-SAVING SYSTEMS

MEASUREMENT SENSORS

STATIC ELECTRICITY PREVENTION DEVICES

LASER MARKERS

PLC

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ENERGY CONSUMPTION VISUALIZATION COMPONENTS

FA COMPONENTS

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UV CURING SYSTEMS

Selection Guide Pressure/ Digital Display Pressure/ Head-separated Flow

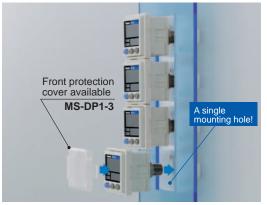
MOUNTING

Tight installation to panels is possible

Ramco National

An exclusive mounting bracket **MS-DP1-2** that is suitable for 1 to 6 mm 0.039 to 0.236 in panel thickness is available.





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www.panasonicsensors.com

DPC-L100/ DPH-L100 DPS-400/ DPH-100 DPC-100/ DPH-100

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> SENSOR OPTIONS SIMPLE WIRE-SAVING

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> > PLC

HUMAN MACHINE INTERFACES ENERGY CONSUMPTION VISUALIZATION COMPONENTS

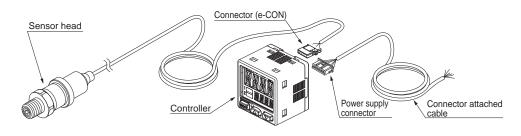
MACHINE VISION SYSTEMS

UV CURING SYSTEMS

> Selection Guide

Pressure Digital Display

PRODUCT CONFIGURATION



ORDER GUIDE

Sensor heads

Туре	Appearance	Rated pressure range	Model No.	Pressure port	Applicable fluid
Compound pressure		-0.1 to +1.0 MPa	DPH-L113V	R1/4 male thread	Gases and fluids that do not corrode stainless steel SUS304, SUS630, or SUSXM7
		0 to +1.0 MPa	DPH-L113		
Danisia and an annual		0 to +3.5 MPa	DPH-L133		
Positive pressure		0 to +10 MPa	DPH-L114		
		0 to +50 MPa	DPH-L154		

Controllers

Appearance	Model No.	Comparative output
335	DPC-L101	NPN open-collector transistor
* CN-66A-C2 (Connector attached cable 2 m 6.562 ft) is attached.	DPC-L101-P	PNP open-collector transistor

Type without connector attached cable

Type without connector attached cable is available. When ordering this type, suffix "-J" to the Model No. (e.g.) Type without connector attached cable of **DPC-L101-P** is "**DPC-L101-P-J**".

Accessory

• CN-66A-C2 (Connector attached cable 2 m 6.562 ft)





OPTIONS

Designation	Model No.	Description		
Sensor head connector (e-CON) CN-EP2 (Note 1 5 pcs. per set		Connector for connecting sensor head controller		
Connector	CN-66A-C2 (Note 2)	Length 2 m 6.562 ft	Controller power supply I/O cable.	
attached cable	CN-66A-C5	Length 5 m 16.404 ft	0.2 mm² 6-core oil-resistant cabtyre cable with connector	
Power supply connector CN-66A 5 pcs. per set		Connector for controller power supply I/O cable.		
Controller mounting bracket MS-DP1-6		Allows sensors to be installed on the wall. Multiple sensors can also be mounted closely.		
Panel mounting bracket MS-DP1-2		Allows installation to panels with thickness of 1 to 6 mm 0.039 to 0.236 in. Multiple sensors can also be mounted closely.		
Front protection cover MS-DP1-3		Protects the adjustment surfaces of controllers. (Can be attached when using the panel mounting bracket)		

Notes: 1) One is attached to each sensor head according to standard.

2) The connector attached cable CN-66A-C2 is supplied with the controller according to standard.

Sensor head connector (e-CON)

· CN-EP2



Note: One is attached to each sensor head according to standard.

Connector attached cable

- · CN-66A-C2
- · CN-66A-C5



Note: The connector attached cable **CN-66A-C2** is supplied with the controller according to standard.

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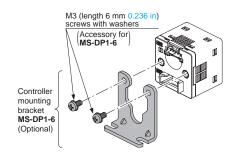
Power supply connector

• CN-66A



Controller mounting bracket

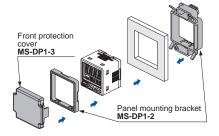
• MS-DP1-6



Panel mounting bracket, Front protection cover

• MS-DP1-2

• MS-DP1-3



Recommended e-CON

Model No.: 1473562-4 (Manufactured by Tyco Electronics Japan G.K.) Note: Contact the manufacturer for details of the recommended products.

Recommended power supply connector

Contact: SPHD-001T-P0.5, Housing: PAP-06V-S (Manufactured by J.S.T. Mfg. Co., Ltd.) Note: Contact the manufacturer for details of the recommended products.

Recommended crimping tool

Model No.: YC-610R (Manufactured by J.S.T. Mfg. Co., Ltd.) Note: Contact the manufacturer for details of the recommended products. Selection Guide Pressure/ Digital Display Pressure/ Head-separated

DPC-L100/ DPH-L100 DPS-400/ DPH-100 DPC-100/ DPH-100

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FA COMPONENTS MACHINE VISION SYSTEMS

Flow



SPECIFICATIONS

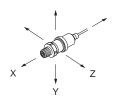
Sensor heads

	isor rieaus	Compound pressure Positive pressure					
Ì	Туре		1 MPa type	3.5 MPa type	10 MPa type	50 MPa type	
Iter	m Model No.	DPH-L113V	DPH-L113	DPH-L133	DPH-L114	DPH-L154	
Type of pressure			Se	ealed gauge pressure (Not	e 4)		
Rated pressure range		-0.1 to +1 MPa	0 to +1 MPa	0 to +3.5 MPa	0 to +10 MPa	0 to +50 MPa	
Pressure withstandability		2 MPa	2 MPa	7 MPa	20 MPa	75 MPa	
Applicable fluid		Gases and fluids that do not corrode SUS630, SUS304, or SUSXM7					
Supply voltage		9 to 36 V DC [9 to 32 V DC when using the attached connector (e-CON)]					
Current consumption			20 mA or less				
Analog voltage output		Accuracy: ±	Output voltage: 1 to 5 V DC (over rated pressure range) Accuracy: ±1.0 % F.S. (at 23 ±2 °C +73.4 ±35 °F) ±2.0 % F.S. (at -20 to 70 °C -4 to +158 °F) (including linearity, hysteresis and repeatability) Output voltage: 1 to 5 V DC (over rated pressure range) Accuracy: ±1.0 % F.S. (at 23 ±2 °C +73.4 ±35 °F) ±2.0 % F.S. (at -20 to 125 °C -4 to +158 °F) (including linearity, hysteresis and repeatability)			±2 °C +73.4 ±35 °F) 0 to 125 °C -4 to +158 °F)	
Response time		1 ms or less					
Protection		IP67 (IEC)					
esistance	Ambient temperature	-20 to +70 °C -4 to +158 °F (No dew condensation allowed), Storage: -30 to +70°C -22 to +158 °F		-20 to +80 °C -4 to +176 °F (Pressure port: -20 to +125 °C -4 to +257 °F, No dew condensation allowed), Storage: -30 to +100 °C -22 to +212 °F (e-CON connector (accesory): -20 to +75 °C -4 to +167 °F (Storage: -30 to +75 °C -22 to +167 °F)			
Ambient temperature Ambient humidity Medium temperature range Voltage withstandability Insulation resistance		35 to 85 % RH, Storage: 35 to 85 % RH					
		-20 to +70 °C -4 to +158 °F -20 to +125 °C -4 to +257 °F			C -4 to +257 °F		
		150 V AC for one min. between all supply terminals connected together and enclosure					
		100 MΩ, or more, with 50 V DC megger between all supply terminals connected together and enclosure					
Vibration resistance		10 to 2,000 Hz frequency, acceleration 200 m/s², in X di-rection for four hours, in Y and Z directions for two hours each (Note 5)					
Shock resistance		1,000 m/s² acceleration in X, Y and Z directions for three times each					
Grounding method		Capacitor earth (Enclosure-supply terminal)					
Pressure port		R1/4 male thread (throttle embeded)					
Material		Diaphragm: Stainless steel (SUS630), Pressure port: Stainless steel (SUS304), Throttle: Stainless steel (SUSXM7)					
Connecting method		Connector					
Cable		0.2 mm² 3-core heat resistant cabtyre cable 2 m 3.562 ft long					
Cable extension		Extension up to total 10 m 32.808 ft is possible with 0.2 mm², or more, cable.					
Weight		Net weight: 100 g approx., Gross weight: 150 g approx.					
Acc	essory	Connector (e-CON): 1 pc.					

- Notes: 1) Where measurement conditions have not been specified precisely, the conditions used were an ambient temperature of +23 °C +73.4 °F.

 - 2) The sensor head can be used independently.
 3) Oil is used in the factory inspection process for models **DPH-L114** and **DPH-L154**. There may be some residual oil inside the pressure port.
 4) The sensor's internal mechanism is sealed based on an air pressure of 1,013 hPa.

 - 5) The X, Y, and Z directions are defined as follows:



SPECIFICATIONS

Controllers

DPH-L154 0 to +50 MPa .5 to +53.5 MPa i to +545 kgf/cm² i to +535 bar 0 to +7760 psi 0.1 MPa ey operation) 5 to +51.0 MPa to +520 kgf/cm² to +510 bar 0 to +7400 psi de) ge) ge) ge) nA source current				
0 to +50 MPa .5 to +53.5 MPa 5 to +545 kgf/cm² 6 to +535 bar 60 to +7760 psi 0.1 MPa 2y operation) 5 to +51.0 MPa to +520 kgf/cm² to +510 bar 0 to +7400 psi 1e) 1e) 1ge) 1ge)				
.5 to +53.5 MPa 5 to +545 kgf/cm² 5 to +535 bar 10 to +7760 psi 0.1 MPa 2y operation) 5 to +51.0 MPa to +520 kgf/cm² to +510 bar 0 to +7400 psi 1e) ge) ge)				
it to +545 kgf/cm² to +535 bar to +535 bar to to +7760 psi 0.1 MPa ey operation) 5 to +51.0 MPa to +520 kgf/cm² to +510 bar 0 to +7400 psi e) to e				
ey operation) 5 to +51.0 MPa to +520 kgf/cm² to +510 bar 0 to +7400 psi e) ge) age)				
5 to +51.0 MPa to +520 kgf/cm² to +510 bar 0 to +7400 psi				
to +520 kgf/cm² to +510 bar to +7400 psi to +7400 psi e) ge) ge)				
ge) gge) 				
ge) gge) 				
ration				
Incorporated				
 <analog output="" voltage=""> Output current: 1 to 5 V DC Zero point: within 1 V ±0.5 % F.S. (excluding DPH-L113V) within 1.364 V ±0.5 % F.S. (DPH-L113V) Span: within 4 V ±0.5 % F.S. Linearity: within ±0.1 % F.S. Output impedance: 1 kΩ approx. </analog> <analog current="" output=""> Output current: 4 to 20 mA Zero point: within 4 mA ±1.0 % F.S. (excluding DPH-L113V) within 5.455 mA ±1.0 % F.S. (DPH-L113V) </analog> Span: within 16 mA ±1.5 % F.S. Linearity: within ±0.1 % F.S. Load resistance: 250 Ω (max.) 				
er rated pressure range)				
Orange LED (Comparative output 1 operation indicator, comparative output 2 operation indicator: Lights up when each comparative output is ON)				
IP40 (IEC)				
ation or icing allowed), Storage: -10 to +60 °C +14 to +140 °F				
500 V AC for one min. between all supply terminals connected together and enclosure				
50 M Ω , or more, with 500 V DC megger between all supply terminals connected together and enclosure				
10 to 500 Hz frequency, amplitude 3 mm 0.118 in or maximum acceleration 196 m/s², in X, Y and Z directions for two hours each (when panel mounting bracket is mounted: 10 to 150 Hz frequency, amplitude 0.75 mm 0.030 in or maximum acceleration 49 m/s², in X, Y and Z directions for two hours each)				
100 m/s² acceleration in X, Y and Z directions for three times each				
Enclosure: PBT (glass fiber reinforced), LCD display: Acrylic, Mounting threaded part: Brass (nickel plated), Switch part: Silicone rubber				
Connector				
.4 ft when conforming to CE marking) is possible with 0.3 mm², or more, cable.				
<analog output="" voltage=""> Output current: 1 to 5 V DC Zero point: within 1 V ± 0.5 % F.S. (excluding DPH-L113V) Within 1.364 V ± 0.5 % F.S. (DPH-L113V) Span: within 4 V ± 0.5 % F.S. (DPH-L113V) Span: within 4 V ± 0.5 % F.S. (DPH-L113V) Span: within 4 V ± 0.5 % F.S. Linearity: within ± 0.1 % F.S. Output impedance: 1 kΩ approx. Input voltage range: 1 to 5 V DC (over rated pressure range)</analog>				

Notes: 1) Where measurement conditions have not been specified precisely, the conditions used were an ambient temperature of +20 °C +68 °F.

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²⁾ The values specified above are applied only to the controller.

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Selection Guide Pressure/ Digital Display Pressure/ Head-separated

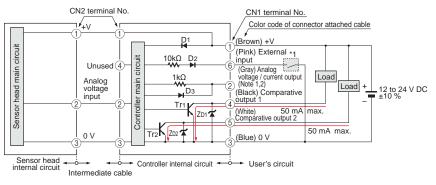
Flow



I/O CIRCUIT AND WIRING DIAGRAMS

DPC-L101 NPN output type

I/O circuit diagram



Notes: 1) Set the output load resistance during analog current output to 250 Ω (max.). 2) Note that a voltage of 5 V or higher is generated during analog current output.

Symbols ...D₁ to D₃: Reverse supply polarity protection diode Z_{D1}, Z_{D2}: Surge absorption zener diode T_{r1}. T_{r2}: NPN output transistor

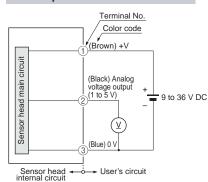
*1

Non-voltage contact or NPN open-collector transistor

or

High (5 to 30 V DC, or open): Invalid
Low (0.4 V DC or less): Valid

For independent use of sensor head

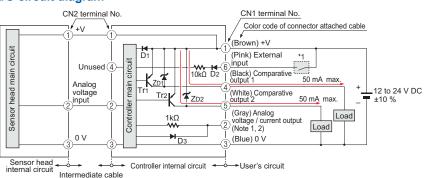


Notes:1) When the sensor head is used independently, devices connected to the analog output must have an input impedance set at 10 k Ω or more and load capacity 1,000 pF or less.

- No short-circuit protection circuit is provided for analog voltage output. Do not connect directly to a power supply.
- The pressure port and internal circuitry are connected by a capacitor.
 Do not apply voltage in excess of the specifications' dielectric strength between the pressure port and wiring.
- The transparent tube attached to the cable is not used and should be cut off at the base.

DPC-L101-P PNP output type

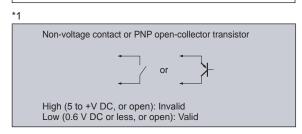
I/O circuit diagram



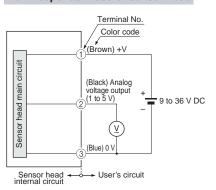
Notes: 1) Set the output load resistance during analog current output to 250 Ω (max.).

2) Note that a voltage of 5 V or higher is generated during analog current output.

Symbols ...D₁ to D₃: Reverse supply polarity protection diode Z_{D1}, Z_{D2}: Surge absorption zener diode T_{r1}, T_{r2}: PNP output transistor



For independent use of sensor head

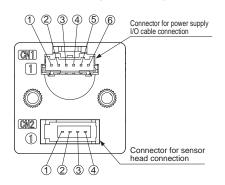


Notes: 1) When the sensor head is used independently, devices connected to the analog output must have an input impedance set at 10 k Ω or more and load capacity 1,000 pF or less.

- No short-circuit protection circuit is provided for analog voltage output. Do not connect directly to a power supply.
- The pressure port and internal circuitry are connected by a capacitor.
 Do not apply voltage in excess of the specifications' dielectric strength between the pressure port and wiring.
- The transparent tube attached to the cable is not used and should be cut off at the base.

I/O CIRCUIT AND WIRING DIAGRAMS

Terminal arrangement diagram



Connector for power supply I/O cable (CN1)

- ①+V ② Analog voltage / current output
- ③ 0 V ④ Comparative output 1
- © Comparative output 2
- © External input

auto-reference function / remote zero-adjustment function / current value hold function)

Others

· Never remove the throttle.

supply is switched on.

as, thinner, etc.

not be maintained.

Avoid dust, dirt, and steam.

· Use within the rated pressure range.

Do not apply pressure exceeding the pressure

and correct operation shall not be maintained.

· Take care that the sensor does not come in direct

• Do not insert wires, etc., into the pressure port. The

withstandability value. The diaphragm will get damaged

• Do not use during the initial transient time (controller: 0.5

sec. approx, sensor head: 50 ms approx.) after the power

contact with water, oil, grease, or organic solvents, such

diaphragm will get damaged and correct operation shall

• Do not operate the keys with pointed or sharp objects.

Connector for sensor head (CN2)

Refer to p.1472 for general precautions.

- ① Sensor head supply voltage ② Analog voltage input
- 30 V

Unused

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FA COMPONENTS

MACHINE VISION SYSTEMS

CURING SYSTEMS

PRECAUTIONS FOR PROPER USE

· 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.

 The DPH-L100 series is designed for use with air and non-corrosive gas. It cannot be used with liquid or corrosive and inflammable gases.

Part description



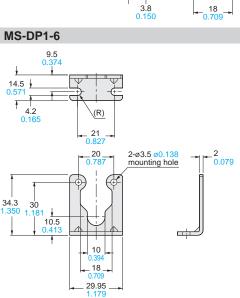
Wiring

- · Make sure that the power supply is off while wiring.
- 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 sensor, connect the frame ground (F.G.) terminal of the equipment to an actual ground.
- · 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.
- · Incorrect wiring will cause problems with operation.

DPH-100 **DPC-100**

Flow

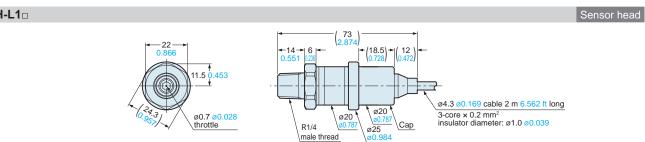
LASER SENSORS DPH-L1 PHOTO-ELECTRIC SENSORS MICRO PHOTO-ELECTRIC SENSORS AREA SENSORS LIGHT CURTAINS / SAFETY COMPONENTS PARTICULAR USE SENSORS SENSOR OPTIONS SIMPLE WIRE-SAVING UNITS MEASURE-MENT SENSORS PLC HUMAN MACHINE INTERFACES ENERGY CONSUMPTION VISUALIZATION COMPONENTS FA COMPONENTS 14.5 ± 0.571 MACHINE VISION SYSTEMS CURING SYSTEMS



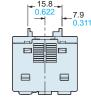
Material: Cold rolled carbon steel (SPCC) (Trivalent uni-chrome plated)
Two M3 (length 6 mm 0.236 in) screws with washers are attached.

DIMENSIONS (Unit: mm in)

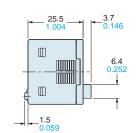
The CAD data in the dimensions can be downloaded from our website.

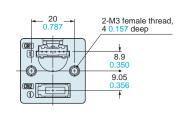


DPC-L101(-P) Controller



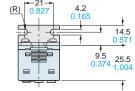
25.6

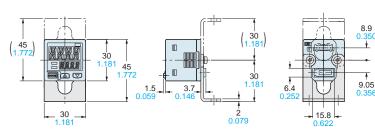




Controller mounting bracket (Optional)

Assembly dimensions





Selection Guide Pressure Digital Display

DIMENSIONS (Unit: mm in)

The CAD data in the dimensions can be downloaded from our website.

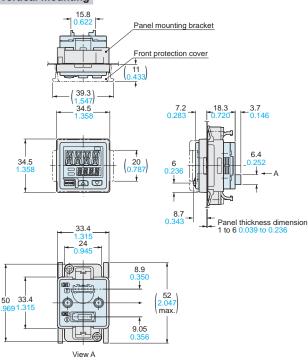
MS-DP1-2 MS-DP1-3

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

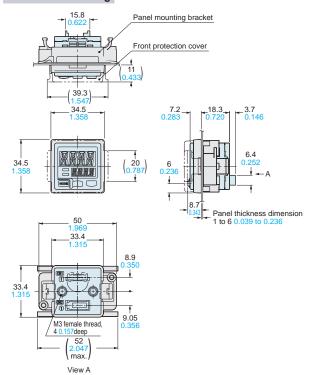
Assembly dimensions

Mounting drawing with **DPC-L101(-P)**

Vertical mounting



Horizontal mounting

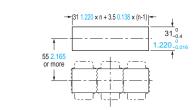


Panel cut-out dimensions

When 1 unit is installed

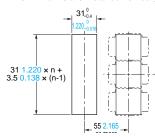
31_0.4

When "n" units are installed horizontally in series



Note: The panel thickness should be 1 to 6 mm 0.039 to 0.236 in.

When "n" units are installed vertically in series

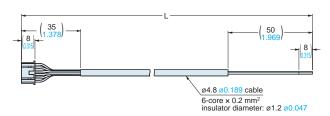


Note: The panel thickness should be 1 to 6 mm 0.039 to 0.236 in.

CN-66A-C2 CN-66A-C5

31_0.4

Connector attached cable (Optional, CN-66A-C2 is attached to the controller)



• Length L

Model No.	Length L	
CN-66A-C2	2,000 78.740	
CN-66A-C5	5,000 196.850	

FIBER SENSORS

LASER SENSORS

PHOTO-ELECTRIC SENSORS

MICRO PHOTO-ELECTRIC SENSORS

AREA SENSORS

LIGHT CURTAINS / SAFETY COMPONENTS PRESSURE / FLOW

> NDUCTIVE PROXIMITY SENSORS

PARTICULAR USE SENSORS

SENSOR OPTIONS

SIMPLE WIRE-SAVING UNITS

WIRE-SAVING SYSTEMS

MEASURE-MENT SENSORS STATIC

ELECTRICITY PREVENTION DEVICES LASER MARKERS

PLC

HUMAN MACHINE INTERFACES ENERGY CONSUMPTION VISITALIZATION

FA COMPONENTS

MACHINE VISION SYSTEMS

UV CURING SYSTEMS

Selection Guide Pressure/

Digital Display
Pressure/
Head-separated

Flow

DPC-L100/ DPH-L100 DPS-400/ DPH-100 DPC-100/ DPH-100