

IoT Pressure Sensors

E8PC-00D/00T/000

Detect Signs of Abnormalities in Cooling Water and Hydraulic Oil by Simultaneous Measurement of "Pressure + Temperature"

- Multi-sensing of "Pressure + temperature" for preventing a sudden stops or manufacturing defects.
- Various lineup of replacement adapters to enable easy replacement of your current pressure gauges and flow meters.
- Analog current output function in addition to the IO-Link communications function that can perform self-diagnosis of abnormalities in the sensor itself.







For the most recent information on models that have been certified for safety standards, refer to your OMRON website.

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Refer to Safety Precautions on page 10.

Ordering Information

Sensors [Refer to Dimensions on page 12.]

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Appearance	Applicable fluid *	Rated pressure range	Control output	Communication method	IO-Link baud rate	Model	
		-0.1 to 1 MPa	PNP	IO-Link	COM2 (38.4 kbps)	E8PC-010D-E	
	Liquid and gas		PNP	Analog	COM3 (230.4 kbps)	E8PC-010T-E	
			NPN	Analog		E8PC-010-E	
<u></u>	Liquid	0 to 10 MPa	PNP	IO-Link Analog	COM2 (38.4 kbps)	E8PC-100D-E	
					COM3 (230.4 kbps)	E8PC-100T-E	
				NPN	Analog		E8PC-100-E
		0 to 40 MPa	DND	IO-Link	COM2 (38.4 kbps)	E8PC-400D-E	
			PNP	Analog	COM3 (230.4 kbps)	E8PC-400T-E	
			NPN	Analog		E8PC-400-E	

Note: Please contact your OMRON sales representative regarding the IO-Link setup file (IODD file).

*The applicable fluid is a liquid that do not erode the liquid contact part materials (such as water, glycol solution, and oil).

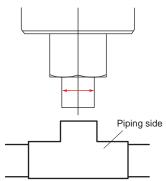
$\mathsf{E8PC}\text{-}\square\square\mathsf{0D}/\square\square\mathsf{0T}/\square\square\mathsf{0}$

Adapters [Refer to Dimensions on page 12.]

It must be selected from the adapters below.

		Nominal diame	eter of thread *			
Appearance	Туре	Nominal diameter A	Nominal diameter B	Thread type	Materials	Model
7	R1/8 male	6 A	1/8"	R (taper thread)	SUS304	E8PC-YA-A18
Ţ	R1/4 male	8 A	1/4"	R (taper thread)	SUS304	E8PC-YA-A14
T	R3/8 male	10 A	3/8"	R (taper thread)	SUS304	E8PC-YA-A38
Î	G1/4 female	8 A	1/4"	G (parallel thread)	SUS304	E8PC-YA-B14N
Ţ	NPT1/8 male	6 A	1/8"	NPT (taper thread)	SUS304	E8PC-YA-C18
	NPT1/2 male	8 A	1/4"	NPT (taper thread)	SUS304	E8PC-YA-C14

^{*}The nominal diameter of the thread is the size of the part shown below on the adapter.



Cables (Sensor I/O Connectors)

A Cable is not provided with the Sensor. It must be ordered separately.

Туре	Appearance	Cable	Model
	Straight	2 m	XS5F-D421-D80-F
Socket on one		5 m	XS5F-D421-G80-F
cable end	L-shaped	2 m	XS5F-D422-D80-F
		5 m	XS5F-D422-G80-F
	Straight/straight L-shaped/L-shaped	2 m	XS5W-D421-D81-F
Socket and plug on		5 m	XS5W-D421-G81-F
cable ends *		2 m	XS5W-D422-D81-F
		5 m	XS5W-D422-G81-F

Note: Refer to Sensor I/O Connector/Sensor Controller on your OMRON website for details. * Straight type/L-shape type combinations are also available.

Throttle [Refer to Dimensions on page 13.]

If the excessive pulsation or surge voltage is expected, use a throttle. Install it inside the adapter and use.

Appearance	Туре	Material	Model	Installation method
	For a male adapter	SUS304	E8PC-YS	Pressure senso
	For a female adapter	SUS304	E8PC-YS-N	Throttle

O-ring (for replacement) [Refer to Dimensions on page 13.]

Appearance	Туре	Model
	For E8PC-010□	E8PC-YL-1 *
0	For E8PC-100□/-400□	E8PC-YL-2 *
0	Female for adapter G1/4	E8PC-YL-3

^{*} Provided with the sensor.



Ratings and Specifications

Sensors

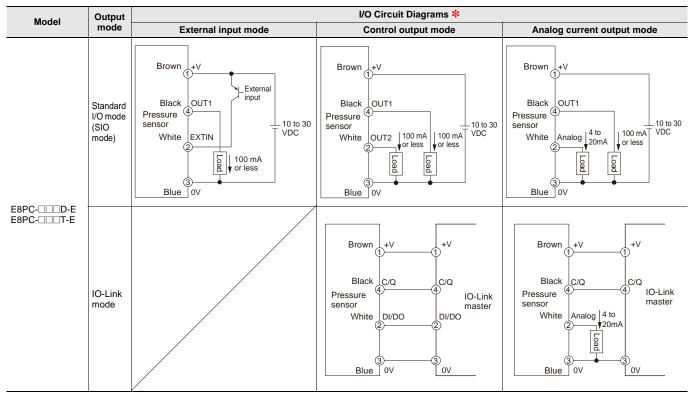
	PNP(COM2)	E8PC-010D-E	E8PC-100D-E	E8PC-400D-E			
Model	PNP(COM3)	E8PC-010T-E	E8PC-100T-E	E8PC-400T-E			
	NPN	E8PC-010-E	E8PC-100-E	E8PC-400-E			
	Rated pressure range	-0.1 to 1 MPa	0 to 10 MPa	0 to 40 MPa			
	Display range	-0.20 to 1.10 MPa	-0.10 to 11.00 MPa	-0.10 to 44.00 MPa			
	Withstand pressure *2	4 MPa	30 MPa	50 MPa			
	Burst pressure	8 MPa	60 MPa	80 MPa			
	Display resolution	0.001 MPa	0.01 MPa	0.01 MPa			
	Applicable fluid temperature *3	-20 to +100°C (no icing or condensation)					
Pressure monitoring *1	Pressure response time *4	Control output: Select 3 to 60 Analog output: Set value + 2					
	Pressure monitoring precision	±1.0% of F.S. or less					
	Pressure repeatability *5	±0.3% of F.S. or less					
	Ambient temperature characteristics *6	±0.6% of F.S./10°C					
	Hysteresis	Variable					
	Pressure type	Gauge pressure					
T	Temperature monitoring rated range	-20 to 100°C	-20 to 100°C				
Temperature monitoring *7	Temperature monitoring precision	±4°C					
	Temperature repeatability	±1°C					
Control output	Standard mode	Judge if the measured value is the threshold value or more (or less).					
judgment (selectable)	Window mode	Judge if the measured value is within the upper and lower limits.					
Compatible fluid		Gas and fluid not corroding the material of the wetted part (such as water, glycol solution, and oil)					
Display method		Numerical value indication: 4-digit 7-segment white LED with inverting function Status indicator: Normal operation (green), status indication (orange), and error (red) The content of status indication is selectable. Output indicator: OUT1 operation (orange), OUT2 operation (orange) Unit indication: E8PC- OHP (white), E8PC- HP (white), psi (white), °C (white) IO-Link indicator: Lighting when communications are in progress (green)					
Delay setting		1 to 9999 ms (Select a function from invalid, ON delay, OFF delay, and one-shot.)					
Connection metho	d	M12, 4-pole connector type					
Connecting diame	ter	G3/4 male (Use the optional adapter to convert the diameter) Connection strength 20 N·m					
Output ch1 (selectable)	Control output	Pressure control output (N.C E8PC-UDD/T: PNP E8PC-UD: NPN 30 VDC or less, Class 2, ma	v./N.C.) x. 100 mA, residual voltage 1 V	or less			
0.44	Control output	Pressure control output (N.O./N.C.) / temperature control output (N.O./N.C.) E8PC-__\D/T: PNP E8PC-_\D\: NPN 30 VDC or less, Class 2, 100 mA max., residual voltage 1 V or less					
Output ch2 (selectable)	Analog current output *8	Pressure analog output / Temperature analog output Current output 4 to 20 mA (maximum load resistance 350Ω or less) (Display value ± 2% of F.S.)					
	External input	One-point teaching, zero point adjustment input (selectable, initial status: invalid) short-circuit current 1.5 mA or less, input time 20 ms or more					

	PNP(COM2)	E8PC-010D-E	E8PC-100D-E	E8PC-400D-E			
Model	PNP(COM3)	E8PC-010T-E	E8PC-100T-E	E8PC-400T-E			
	NPN	E8PC-010-E	E8PC-100-E	E8PC-400-E			
	IO-Link specification	Ver 1.1					
	Baud rate		E8PC-□□□D: COM2 (38.4kbps) E8PC-□□□T: COM3 (230.4Kbps)				
IO-Link	Data length	PD Size: 6 byte OD Size: 1 byte (M-sequence type: TYPE_2_V)					
	Minimum cycle time	E8PC-□□□D (COM2): 3.2 ms E8PC-□□□T (COM3): 2.0 ms					
	Power supply voltage	10 to 30 VDC (including	10% ripple (p-p)), Class 2				
Power supply	Power consumption	1,200 mW or less (When power supply voltage is 30 V, current consumption must be 40 mA or less. When power supply voltage is 10 V, current consumption must be 120 mA or less.)					
Protection circui	otection circuit Power supply reverse connection protection, output short-circuit protection, reverse connection protection			hort-circuit protection, and output			
	Ambient temperature range	-20 to 70°C in operation and storage, respectively (no condensation)					
	Ambient humidity range	-35 to 85%RH in operation and storage, respectively (no condensation)					
	Vibration resistance (destruction)	1000 VAC, 50/60 Hz, 1 min. between current-carrying parts and case					
Environment resistance	Shock resistance (destruction)	10 to 2000 Hz, double amplitude 1.5 mm, 2 hours in X/Y/Z direction each					
	Impact (endurance)	500 m/s², three times in X/Y/Z direction each					
	Protective structure	IP67					
	Pollution degree	3					
	Altitude	2,000 m or less					
	Installation place	Indoor					
Material	Wetted part	Pressure port: SUS304L, diaphragm pressure port: Al ₂ O ₃ (alumina), O-ring: FKM					
water iai	Other than wetted part	Head: PPSU, display uni	t: PES, button: PBT, chassis	S, button: PBT, chassis: SUS304L			
Weight		Approx.190 g					
Accessories		Throttle (Model E8PC-YS and E8PC-YS-N), one each O-ring x 1 (Model E8PC-010: Model E8PC-YL-1, Model E8PC-100/400: Model E8PC-YL-2 Ferrite core x 1 (TDK's Model ZCAT1730-0730A) User's manual (Japanese, English, and Chinese), one each Compliance sheet Index list					

- *1. The pressure precision is defined based on the values measured in the ordinary temperature environment (approx. 23°C) using water at the ordinary temperature (approx. 23°C).
- *2. Even instantaneous pressure fluctuation such as water hammer must be within the withstand pressure. If instantaneous pressure fluctuation is expected, use the throttle included in the package.
- ***3.** If the pipe temperature exceeds 70°C, do not contact any cables with the pipe.
- *4. The maximum actual response time has error of 1 ms when the set response time is 3 to 10 ms, 5 ms when it is 11 to 100 ms, and +5% when it is 101 ms or more.
- *5. The pressure repeatability is the error of the detection point when pressure is applied repeatedly in the ordinary temperature environment (approx. 23°C) using water at the ordinary temperature (approx. 23°C) in the rated pressure range.
- ***6.** The ambient temperature characteristics are prescribed based on the value measured using oil as applying a pressure value of 50% of the maximum rated pressure.
- *7. The temperature monitoring precision is prescribed based on the value measured using water.
 - Temperature measurements are affected by both of the temperatures, the medium and the piping.
 - Temperature measuring elements are installed on the back surface of the piezoelectric element (inside the product) and used to measure the temperature. It might take long for the measured value to get stable according to the heat transmission speed.
- *8. Do not connect CH 2 (pin 2) with the IO-Link master unit in analog current output mode. Otherwise, the unit might fail.

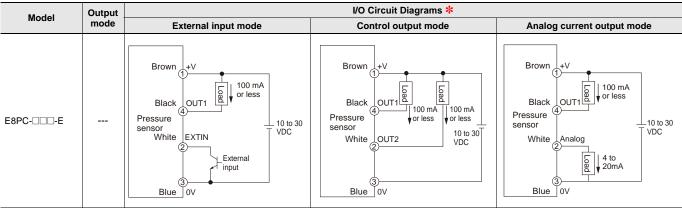
I/O Circuit Diagrams

PNP output



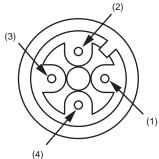
^{*} Pin 2 input/output can be switched with either the operation buttons or the IO-Link communication command, "Pin 2 switching mode selection."

NPN output



^{*} Pin 2 input/output can be switched with the operation buttons.

Connector Pin Arrangement



Applicable OMRON connector cables: XS5F/XS5W Series Applicable IO-Link master unit: NX/GX series

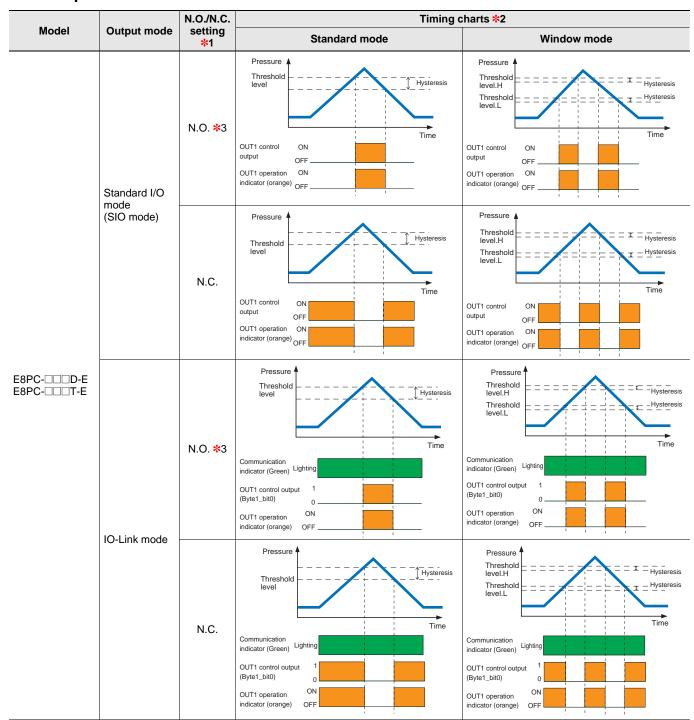
Pin No.		E8PC-			
	Standard I/O mode IO-Link mode				
(1)	+V	+V	+V	- - EXTIN: External input	
(2)	EXTIN/Analog/OUT2 *	Analog/OUT2 *	EXTIN/Analog/OUT2 *	Q: Control output	
(3)	0 V	0 V	0 V	C: IO-Link	
(4)	C/Q	C/Q	Q	communications	

*Pin 2 input/output can be switched with either the operation buttons or the IO-Link communication command, "Pin 2 switching mode selection."

Timing Charts

The timing chart is described below by using the pressure control output of OUT1 as an example. The activity is the same even when temperature control output is set in OUT2.

PNP output



^{*1.} The N.O./N.C. setting can be changed by the operation buttons or IO-Link communications.

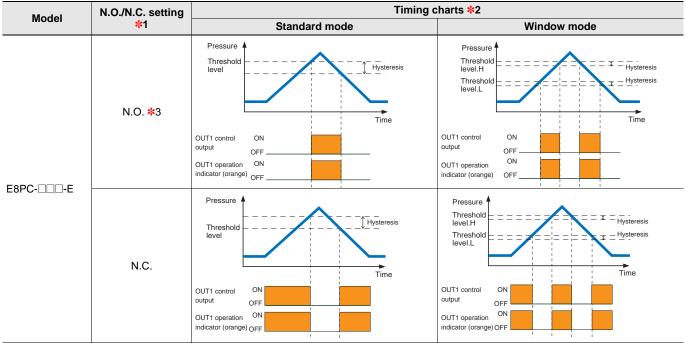
^{*2.} The timer function can be set individually for OUT1 and OUT2 by the operation buttons or IO-Link communications. (Selection of ON delay, OFF delay, or one-shot function, and selection of a timer time from 1 to 9999 ms)

The delay timing of each function is same as the NPN output. Refer to the next page.

^{*3.} Factory default

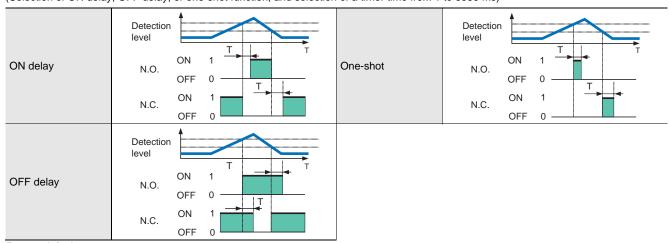
$E8PC-\square \square 0D/\square \square 0T/\square \square 0$

NPN output



***1.** The N.O./N.C. setting can be changed by the operation buttons.

***2.** The timer function can be set individually for OUT1 and OUT2 by the operation buttons. (Selection of ON delay, OFF delay, or one-shot function, and selection of a timer time from 1 to 9999 ms)



***3.** Factory default

Nomenclature

[Status indicators: green/orange/red]
Lit up according to the measured value and setting of pressure and temperature.

[Unit indicator: white]
Displays the current unit setting.

Mode switching [MODE] button Calls a menu, selects (determine) a menu, and switches the unit. [Communication indicator: green] Lit up when IO-Link communications are in progress.

[Output indicator: orange] Lit up when output is ON.

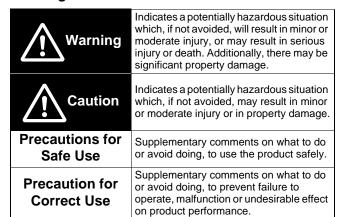
[Measured value: white digital] Displays the measured value.

Switch setting
[UP/DOWN] button
Changes the threshold value and setting parameters.

Safety Precautions

Be sure to read the precautions for all models in the website at: http://www.ia.omron.com/.

Warning Indications



Meaning of Product Safety Symbols

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	General Prohibition Indicates the instructions of unspecified prohibited action.
<u>^i</u>	General caution Indicates unspecified general alert.
	Caution, explosion Indicates the possibility of explosion under specific conditions.
	Caution, high temperature Indicates the possibility of injuries by high temperature under specific conditions.
	Caution, fire Indicates the possibility of fires under specific conditions.

MARNING

This product is not designed or rated for ensuring safety of persons either directly or indirectly. Do not use it for such purpose.



The specification of this product is not for beverage, food, or medical chemicals.

Do not use this product for the device contacting beverage, food, or medical chemicals



Do not use the product with voltage in excess of the rated voltage.

Excess voltage may result in malfunction or fire.



This product is not assumed to be used in explosionproof areas.

Do not use the product in explosion proof areas.



Never use the product with an AC power supply. Otherwise, explosion may result.



The product might fail or be destroyed.

Do not impress any pressure exceeding the rated value even instantaneously.



The product might fail or be damaged.

Do not stand on the sensor, or add excessive load.



The fluid in the pipe might spout out.

Tighten the prescribed O-ring to the pipe.



Caution

The product might fail or be damaged. Piping, wiring, maintenance, and checkup must be done by operators with expertise.



The product might be damaged or fire. Do not short-circuit load.



The product might be damaged or fire.

Be careful with polarity of the power supply to avoid incorrect wiring.



The user might get burned.

The sensor surface temperature rises depending on the operating condition such as ambient temperature, power supply voltage, or fluid temperature.



Be careful when operating or cleaning the product.

Precautions for Safe Use

The following items are necessary for ensuring safety, so be sure to observe them.

- Do not use the product in the following installation areas.
 - (1) Locations subject to direct sunlight
 - (2) Locations subject to condensation due to high humidity
 - (3) Locations subject to corrosive gas
 - (4) Locations subject to vibration or mechanical shocks exceeding the rated values
 - (5) Locations subject to exposure to water, oil, chemicals
 - (6) Locations subject to stream
- (7) Locations subjected to strong magnetic field or electric field
- Do not use in an environment exposed to an inflammable/ explosive gas
- Do not use in an ambient atmosphere or environment exceeding the rating.
- Although the product is classified into IP67, do not use it in water, under the rain, or outdoor.
- Do not use the product for any inflammable, explosive, or corrosive fluids.
- Do not froze or solidify the fluid. Otherwise, the product might fail or be damaged.
- Provide a relief valve to prevent the circuit from liquid sealing.
- Make sure safety before installing/replacing the sensor, for example, stop the machine or depressurize the fluid.
- In order to ensure safety of user operations and maintenance, install the product apart from high-pressure equipment or power equipment.
- When revolving the product, support the chassis holding part with a spanner.
- Wire this product separately from high-pressure wire or power wire. If wiring together with such wire or in the same duct, this product might receive induction, which might cause malfunctioning or damages.
- Be sure to turn OFF the power before wiring.
- Do not wire with a wet hand.
- Use this product under the rated or smaller load. Otherwise, the product might be damaged or catch fire.
- · Connect load correctly.

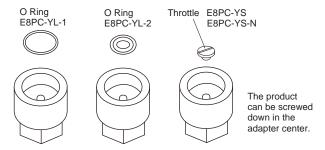
- If the load and sensor use separate power supplies, turn ON the sensor's power first.
- Process unwired terminals so that they do not contact other wire or equipment.
- Do not use the product with the main unit damaged.
- Be careful with the sharp screw parts.
- Do not pull connected cables hard.
- Do not use organic solvents such as thinner or alcohol for cleaning because they deteriorate the degree of protection and indication performance.
- Do not try to disassemble, repair, or alter the main unit.
- If disposing this product, handle it as industrial waste.
- This product is certified by the UL standard based on the assumption that Class 2 circuits are used. Operate this product using Class 2 power supply in the United States or Canada.
- Use cables of Omron model XS5F-D4 series or model XS5W-D4 series.
- The _____ mark shown on the sensor nameplate means direct current.
- Electromagnetic environment: Industrial electromagnetic environment (EN 61326-1 Table2)

Precaution for Correct Use

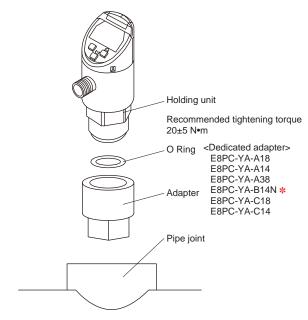
- Do not use this product as a measuring apparatus for commercial transactions.
- · Do not use this product for any fluids containing impurities.
- If the fluid is non-conductive and the pipe is made of resin, ground the chassis.
- Use the product in the condition that the fluid temperature is higher than the ambient temperature. For preventing condensation, use the product as dehumidifying by air conditioning and 30 cm or more apart from cold pipes.
- Do not add excessive impart such as falling or collision.
- Do not touch the detecting unit with bare hands.
- Apply grease to the thread parts to prevent them from getting hard to remove due to seizure.
- · Fasten by the prescribed torque.
- When using a cable of which diameter is different from that of the recommended cable, prepare a ferrite core suitable for the cable diameter separately.
- If using the product in IO-Link mode, keep the wiring length between the master unit and sensor 20 m or less.
- Just after the power is turned ON, it might take long for the measured value to get stable according to the operating environment.
- Do not connect CH 2 (pin 2) with the IO-Link master unit in analog current output mode. The unit might fail depending on the specification of the IO-Link master.
- Do not push the button with something sharp such as a screwdriver because doing so might damage the button.
- If using the product in an environment subject to sharp temperature variation, evaluate the product in the environment in advance.
- When implementing maintenance, use a soft brush or waste cloth so as not to damage the detecting unit or O-ring.
- When replacing the O-ring, prevent dust/dirt from being mixed into the O-ring.
- Use the product in an environment at altitudes less than 2,000 m.
- Use the product in an environment of pollution degree 3.

Piping Method

- · Use adapters according to the connecting diameter of the pipe.
- To use the adapter, use the prescribed O-ring.
- If it is expected that the product receives excessive pulsation or surge pressure, use the throttle.
- When revolving the product, support the chassis holding part with a spanner.
- Mount the attached ferrite core at a position located within 10 mm from the edge of the cable bushing when you use this product as CE acceptable goods.



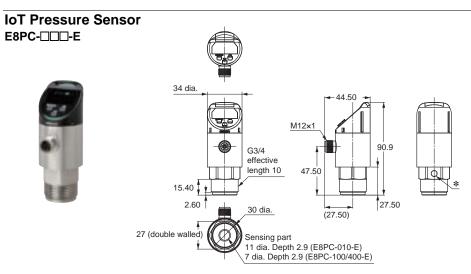
Conversion Adapter Conversion Adapter Conversion Adapter



* When using the E8PC-YA-B14N dedicated adapter, use the E8PC-YL-3 O-ring on the female side of the adapter.

Dimensions (Unit: mm)

Sensors

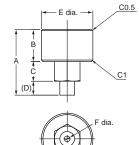


* There is no vent in E8PC-100/400-E.

Adapter

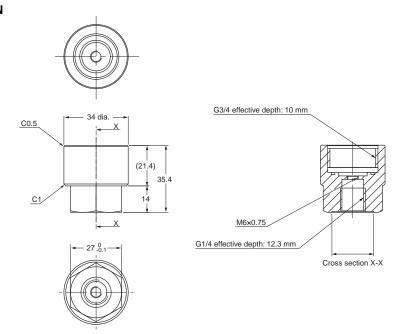
E8PC-YA-A□□ E8PC-YA-C□□





Model	E8PC-YA-A18	E8PC-YA-A14	E8PC-YA-A38	E8PC-YA-C18	E8PC-YA-C14
Thread	G3/4×R1/8	G3/4×R1/4	G3/4×R3/8	G3/4×NPT1/8	G3/4×NPT1/4
Α	43.3	47.1	47.6	43.3	47.1
В	21.1				
С	13				
D	9.2	13	13.5	9.2	13
E	34				
F	3.7	4.8	5	3.7	4.8
G	17	17	19	17	17

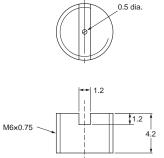
E8PC-YA-B14N



Throttle

E8PC-YS



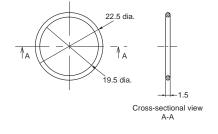


1.2±0.10 1.2±0.10 1.0 dia. 1.6 1.6

O-ring

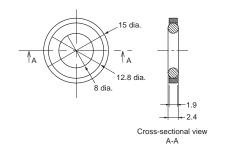
E8PC-YL-1





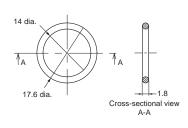
E8PC-YL-2





E8PC-YL-3





Cable

Refer to page 28 of E8FC.

MEMO

Terms and Conditions Agreement

Read and understand this catalog.

Please read and understand this catalog before purchasing the products. Please consult your OMRON representative if you have any questions or comments.

Warranties.

- (a) Exclusive Warranty. Omron's exclusive warranty is that the Products will be free from defects in materials and workmanship for a period of twelve months from the date of sale by Omron (or such other period expressed in writing by Omron). Omron disclaims all other warranties, express or implied.
- (b) Limitations. OMRON MAKES NO WARRANTY OR REPRESENTATION, EXPRESS OR IMPLIED, ABOUT NON-INFRINGEMENT, MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE OF THE PRODUCTS. BUYER ACKNOWLEDGES THAT IT ALONE HAS DETERMINED THAT THE PRODUCTS WILL SUITABLY MEET THE REQUIREMENTS OF THEIR INTENDED USE.

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See http://www.omron.com/global/ or contact your Omron representative for published information.

Limitation on Liability; Etc.

OMRON COMPANIES SHALL NOT BE LIABLE FOR SPECIAL, INDIRECT, INCIDENTAL, OR CONSEQUENTIAL DAMAGES, LOSS OF PROFITS OR PRODUCTION OR COMMERCIAL LOSS IN ANY WAY CONNECTED WITH THE PRODUCTS, WHETHER SUCH CLAIM IS BASED IN CONTRACT, WARRANTY, NEGLIGENCE OR STRICT LIABILITY.

Further, in no event shall liability of Omron Companies exceed the individual price of the Product on which liability is asserted.

Suitability of Use.

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