Pressure Sensor

E8MS/E8M

Four-channel Pressure Sensor Offering Versatile Functions and High Precision Without Errors

- The industry's smallest pressure sensor, compact, lightweight - ideal for robot arms or other moving components
- A highly sensitive minute-pressure sensor model detects very small differences in air pressure
- No wiring conduit required can be located for sensing in small places
- Simple display panel for efficient space-saving, though, providing large LEDs
- Easy sensitivity adjustment using the teach function and channel-to-channel copy function



Ordering Information

Sensors

Sensors

E8MS

	Pressure range	Output form	Model
Positive pressure	0 to 100 kPa		E8MS-01
	0 to 1 MPa	Linear output 1 to 5 V	E8MS-10
Negative pressure	0 to -101 kPa		E8MS-N0

E8M

	Pressure range	Output form	Model
Minute differential pressure sensor	Differential pressure from 0 to 1,000 Pa (0 to 0.145 psi) between positive and negative ports	Lineau autout data E.V.	E8M-A1
Positive pressure 0 to 1 MPa		Linear output 1 to 5 V	E8M-10
Negative pressure	0 to -101 kPa		E8M-N0

Controller

Supply voltage	Output form	Number of sensor inputs	Model
24 VDC	NPN open collector	4	K3C-MP8-T1Z
	NEW Open collector	2CH	K3C-DP8-T1Z

Note: 1 ch model available.

Accessories (Order Separately)

Sensor I/O Connectors

Applicable type	Shape	Model	Specifications	Quantity	Remarks
E8M		E89-M3 (see note)	4-pin connector with 3 m long cable		Supplied with one XS8A-0442 Pin Controller
E8MS		E89-M4	3-pin connector with 3 m long cable	1 1	Connector

Note: E8M-A1 does not require the Sensor I/O Connector.

Pin Controller Connector

Shape	Model	Fitting conductors size (mm)	Quantity	Minimum order unit	Remarks
	XS8A-0442	0.14 to 0.2	1	10	E89-M3 and E89-M4 supplied with one XS8A-0442 each

Note: Orders are accepted in multiples of the minimum order unit.

E8MS/E8M F-5

Power and output connector

Model Specifications		Quantity
K32-MP2W	7-pin connector with 2-m-long cable	1

Adapter

Shape	Model	Quantity	Minimum order unit	Remarks
	Y92F-30	1	10	One Adapter is attached to the K3C Controller.

Note: Orders are accepted in multiples of the minimum order unit.

Soft Cover

Shape	Model
	Y92A-48F1

Hard Cover

Shape	Model
	Y92A-48

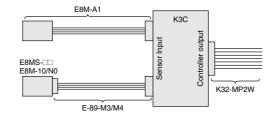
Sensor and Controller Combinations

Use the Pressure Controllers in the following combinations. The E89-M3/M4 is required when using the Sensor as a single unit.

Model	E89-M3	E89-M4	K3C-MP8-T1Z K3C-DP8-T1Z	K32-MP2W
E8MS-01	Χ	0	0	0
E8MS-10	Χ	0	0	0
E8MS-N0	Χ	0	0	0
E8M-A1	Х	Х	0	0
E8M-10	0	Х	0	0
E8M-N0	0	Х	0	0

O:Required; X: Not required.

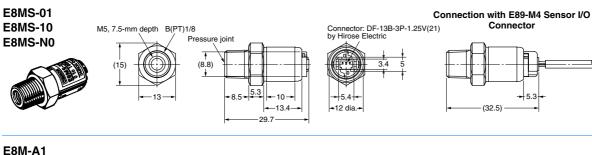
Sensor and Controller Connection

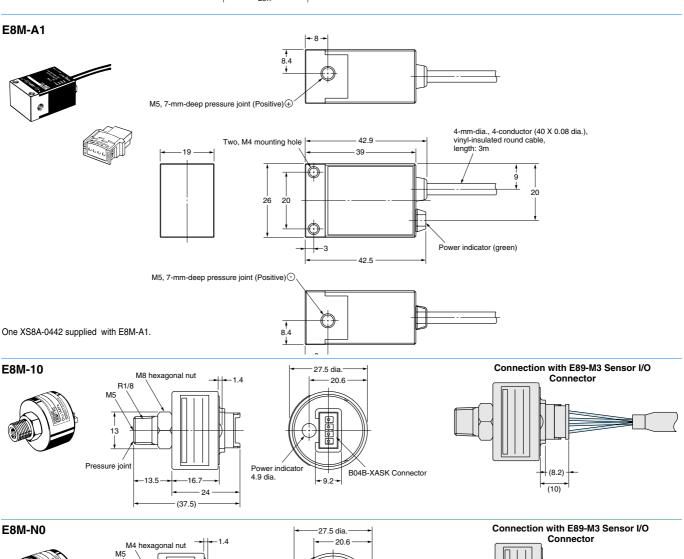


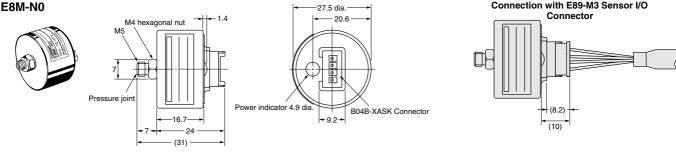
Dimensions (Unit: mm)

Sensors

Sensors





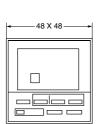


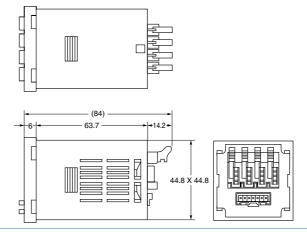
E8MS/E8M F-7

Controller

K3C-□P8-T1Z







ALL DIMENSIONS SHOWN ARE IN MILLIMETERS.

To convert millimeters into inches, multiply by 0.03937. To convert grams into ounces, multiply by 0.03527.

Cat. No. F041-E2-02-X

In the interest of product improvement, specifications are subject to change without notice.

Mouser Electronics

Authorized Distributor

Click to View Pricing, Inventory, Delivery & Lifecycle Information:

Omron: Y92A-48F1