



Chipsmall Limited consists of a professional team with an average of over 10 year of expertise in the distribution of electronic components. Based in Hongkong, we have already established firm and mutual-benefit business relationships with customers from,Europe,America and south Asia,supplying obsolete and hard-to-find components to meet their specific needs.

With the principle of “Quality Parts,Customers Priority,Honest Operation,and Considerate Service”,our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip,ALPS,ROHM,Xilinx,Pulse,ON,Everlight and Freescale. Main products comprise IC,Modules,Potentiometer,IC Socket,Relay,Connector.Our parts cover such applications as commercial,industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



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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	Linear output 1 to 5 V	<b>E8MS-01</b>
	0 to 1 MPa		<b>E8MS-10</b>
Negative pressure	0 to -101 kPa		<b>E8MS-N0</b>

#### 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	Linear output 1 to 5 V	<b>E8M-A1</b>
Positive pressure	0 to 1 MPa		<b>E8M-10</b>
Negative pressure	0 to -101 kPa		<b>E8M-N0</b>

### Controller

Supply voltage	Output form	Number of sensor inputs	Model
24 VDC	NPN open collector	4	<b>K3C-MP8-T1Z</b>
		2CH	<b>K3C-DP8-T1Z</b>

Note: 1 ch model available.

### Accessories (Order Separately)

#### Sensor I/O Connectors

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

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
	<b>XS8A-0442</b>	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.

Power and output connector


Model	Specifications	Quantity
<b>K32-MP2W</b>	7-pin connector with 2-m-long cable	1

Adapter


Shape	Model	Quantity	Minimum order unit	Remarks
	<b>Y92F-30</b>	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
	<b>Y92A-48F1</b>

Hard Cover

Shape	Model
	<b>Y92A-48</b>

Sensor and Controller Combinations

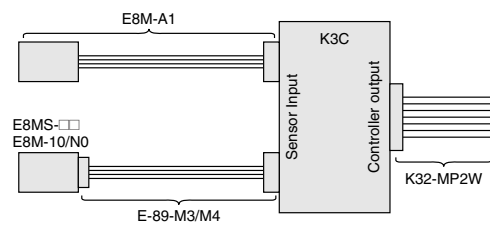
Use the Pressure Controllers in the following combinations.

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	X	O	O	O
E8MS-10	X	O	O	O
E8MS-N0	X	O	O	O
E8M-A1	X	X	O	O
E8M-10	O	X	O	O
E8M-N0	O	X	O	O

O:Required; X: Not required.

Sensor and Controller Connection

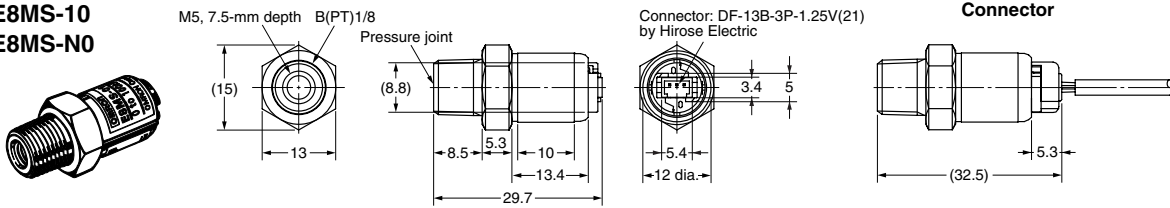




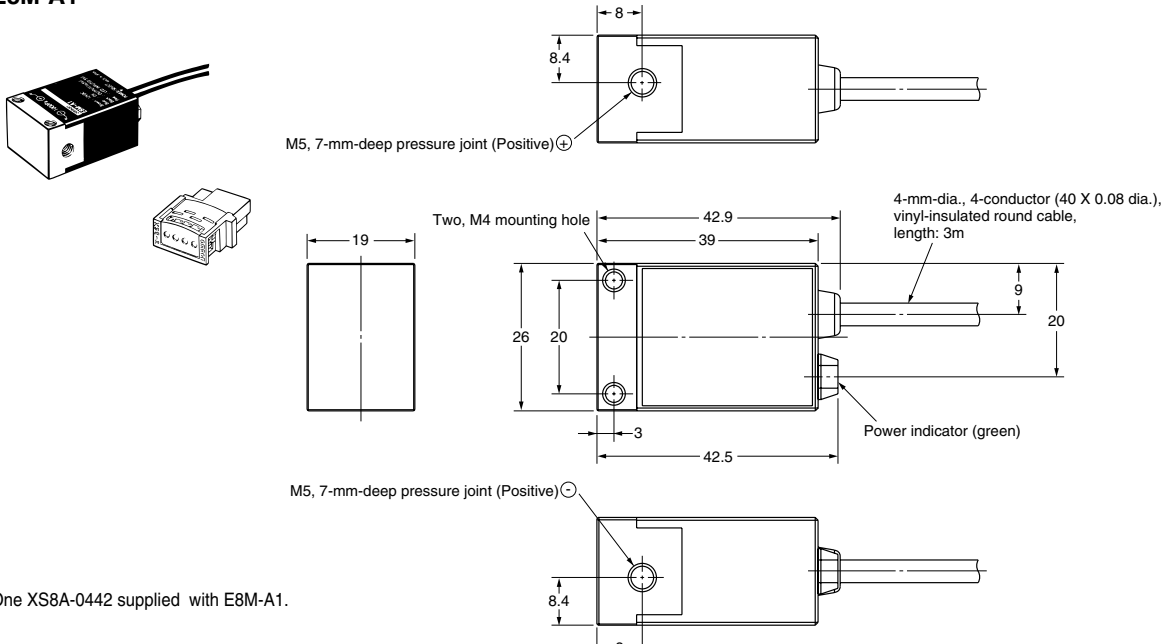
Dimensions (Unit: mm)

Sensors  
Sensors

E8MS-01  
E8MS-10  
E8MS-N0

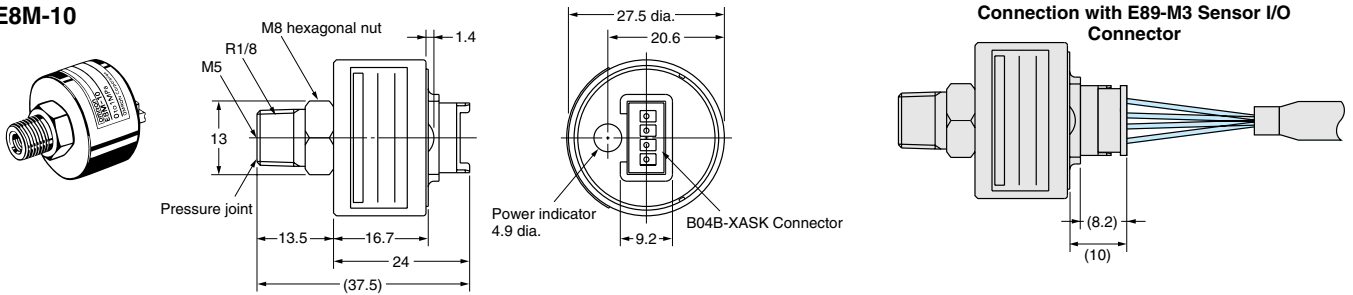


E8M-A1

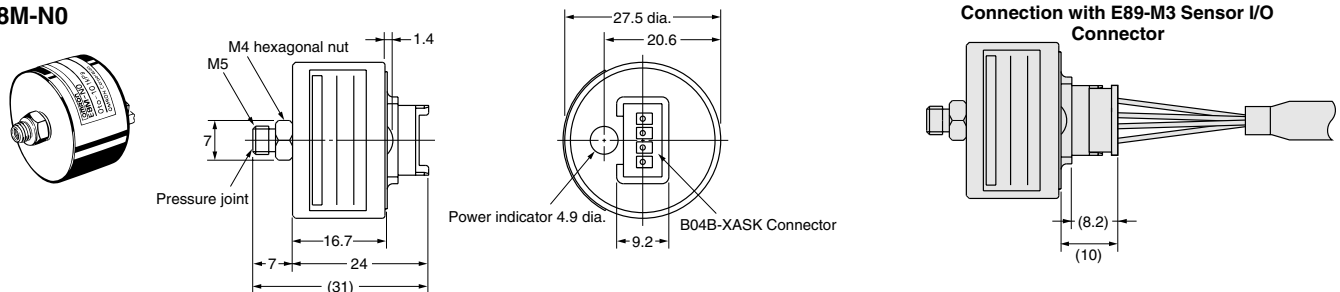


One XS8A-0442 supplied with E8M-A1.

E8M-10

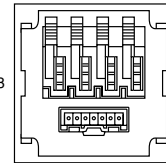
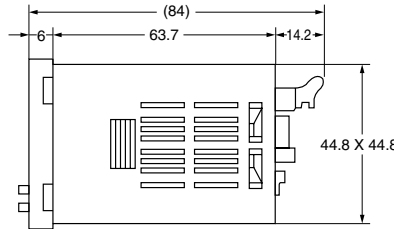
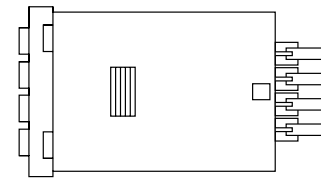
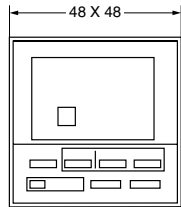
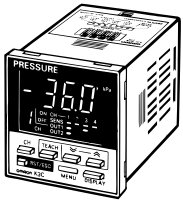


E8M-N0



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.