GENERAL CATALOGUE 2004/2005

Sensing & Safety



Advanced Industrial Automation



Cat.No. F502-EN2-03A SEN

Pressure Sensors

LED Digital Display	E8F2	G-2
Ultra-small, Ultra-light (LED Digital Display)	E8MS/E8M	G-4

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CE

Pressure Sensor

E8F2

Mini-Cube' Pressure Sensor with Easy-to-Read LED

Display

- •Both analog bar and digital pressure values are displayed
- •Measurement pressure is equalized by the chattering prevention function, and an incorrect output is prevented.
- •Easy operation by the automatic teaching function
- •Compact style: 28 x 28 x 29 mm saves installation space



Ordering Information

Sensors

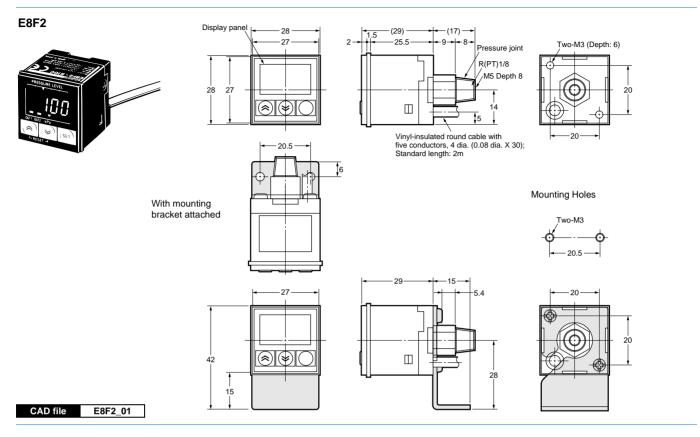
Pressure range		ON/OFF output	Linear output	Model		
Flessule	range			NPN output	PNP output	
Positivo prossuro	0 to 100 kPa	Open collector (independent two outputs)			E8F2-A01C	E8F2-A01B
Positive pressure	0 to 1 MPa		1 to 5 V	E8F2-B10C	E8F2-B10B	
Negative pressure	0 to -101 kPa			E8F2-AN0C	E8F2-AN0B	

Accessories (Order Separately)

Shape	Name	Model	Remarks
2	Mounting Brackets	E89-F3	Supplied with the product.
	Panel-mounting Bracket	E89-F4	

Dimensions (Unit: mm)

Sensors



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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		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	fferential Differential pressure from 0 to 1,000 Pa (0 to 0.145 psi)		E8M-A1
pressure sensor	between positive and negative ports	Lincor output 1 to 5 V	EOM-AT
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
	NPN 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	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.

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

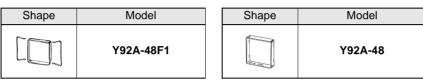
Adapter

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

Hard Cover

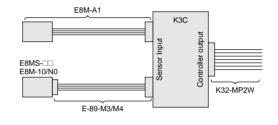


Sensor and Controller Combinations

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	Х	0	0	0
E8MS-10	Х	0	0	0
E8MS-N0	Х	0	0	0
E8M-A1	Х	Х	0	0
E8M-10	0	Х	0	0
E8M-N0	0	Х	0	0

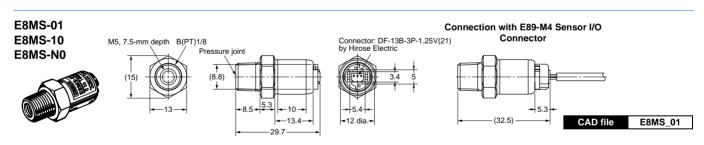
Sensor and Controller Connection



O:Required; X: Not required.

Dimensions (Unit: mm)

Sensors Sensors



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