



NO: PR-005 PRODUCT: E8CC, E8AA Pressure Sensors

DATE: **Discontinuation Notice April 2013** TYPE:

E8CC and E8AA Pressure Sensors will be Discontinued March 2014; Use E8F2 to Replace E8CC





E8AA

Effective Date: Last order date is February 28, 2014

Precautions in Applying Recommended Replacement

- **E8CC** * Shape changes from Slim type with LCD to Square block type with LED digital display.
 - * Wiring changes from 4 wired to 5 wired.
 - * Withstand pressure changes from 490kPa (E8CC-A01 and E8CC-AN0C) to 400kPa (E8F2-A01C and E8F2-AN0C).

E8AA No Omron replacement; SMC Corporation PSE560 Series is similar.

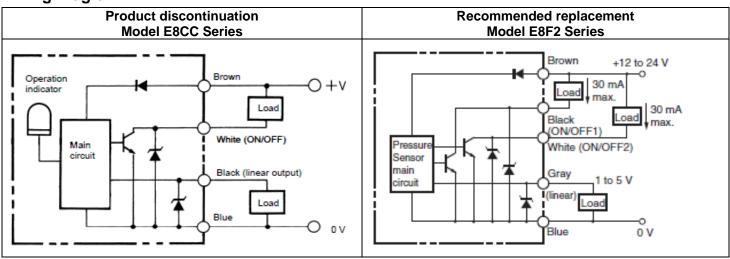
Affected Parts

Product discontinuation	Recommended replacement
Slim Digital Pressure Sensor	Digital Pressure Sensor
Model E8CC Series	Model E8F2 Series
Model E8CC-A01C 2M	Model E8F2-A01C
Model E8CC-AN0C 2M	Model E8F2-AN0C
Model E8CC-B10C 2M	Model E8F2-B10C
Bracket for E8CC	No recommended replacement

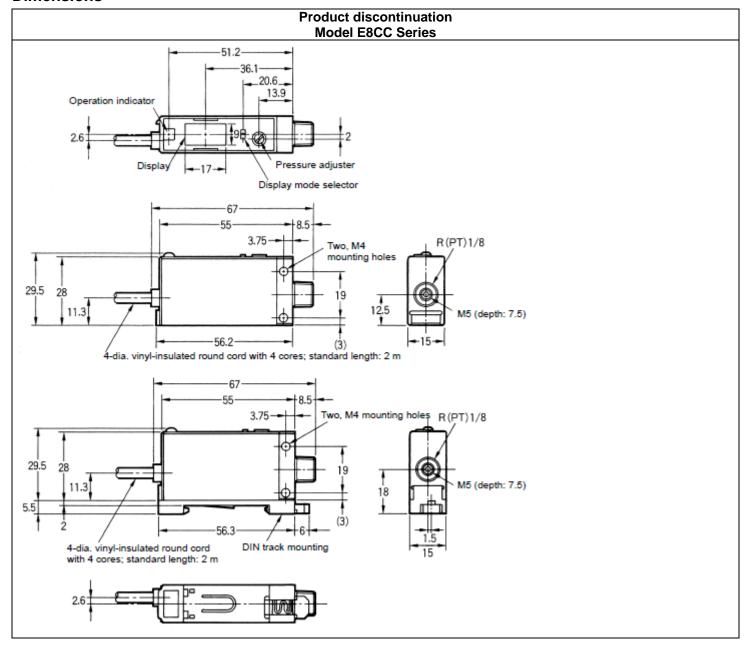
Product discontinuation	Recommended replacement
Pressure Sensor	No Omron replacement
Model E8AA Series	Use SMC Corporation PSE560 Series
Model E8AA-M05 0-500 2M	Model PSE564-02-28
Model E8AA-M10 0-1000 2M	Model PSE560-02-28
Model E8AA-M10 0-1000 10M	Model PSE560-02-28

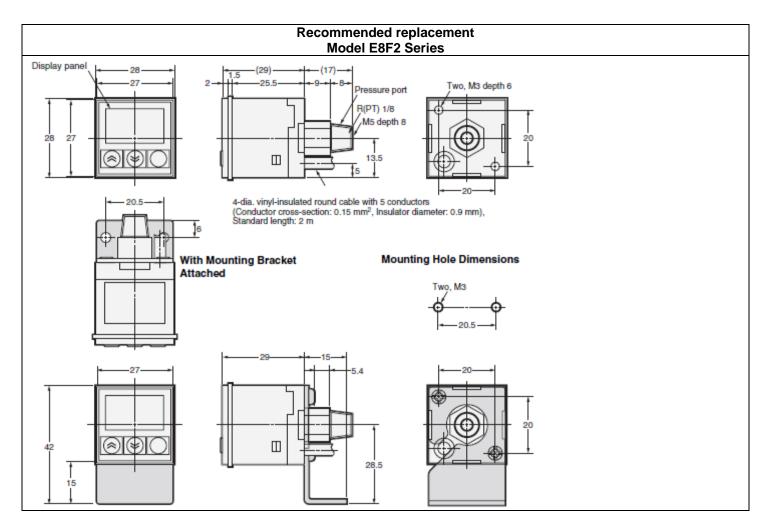
See the following pages for differences between models.

Wiring Diagram



Dimensions





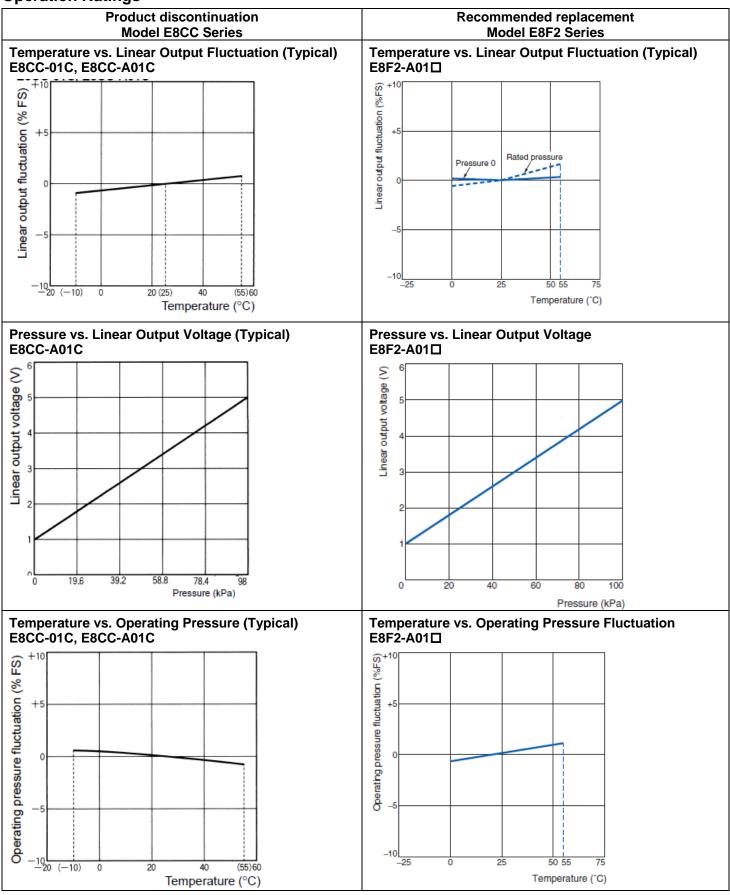
Specifications

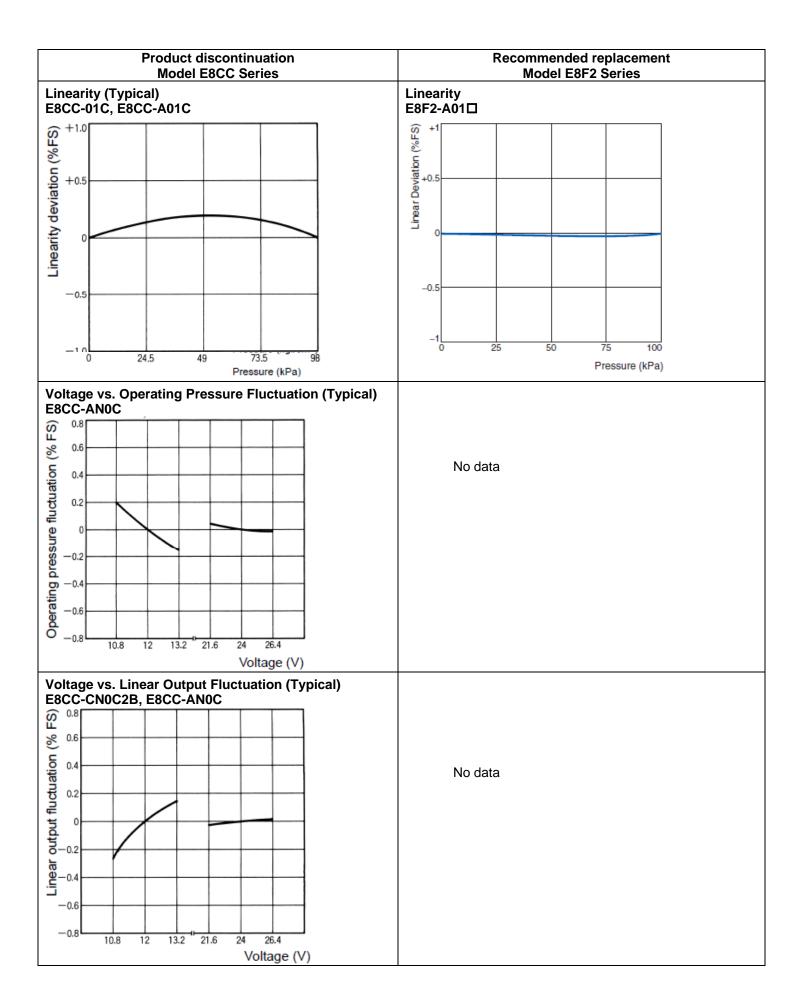
	Product discontinuation Model E8CC Series			Recommendable replacement Model E8F2 Series			
Item Model	E8CC-A01 C	E8CC-AN0C	E8CC-B10C	E8F2-A01C	E8F2-AN0C	E8F2-B10C	
Power supply voltage	12 to 24 VDC ±10% with a ripple (p-p) of 5% max.			12 to 24 VDC ±10% with a ripple (p-p) of 10% max.			
Current consumption	30 mA max.			70 mA max.			
Pressure type	Gauge pressure			Gauge pressure			
Permissible pressure range	0 to 98 kPa	0 to -101 kPa	0 to -980 kPa	0 to 100 kPa	0 to -101 kPa	0 to 1MPa	
Pressure setting range	0 to 98 kPa	0 to -101 kPa	0 to -980kPa	0 to 100 kPa	0 to -101 kPa	0 to 1MPa	
Withstand pressure	490 kPa 1.5 MPa			400 kPa 1.5 MPa			
Applicable fluid	Noncorrosive and nonflammable gases			Noncorrosive and nonflammable gases			
Repeat accuracy (ON/OFF output)	±1% FS max.			±1% FS max.			
Accuracy (linear output)	±3% FS max.						
Differential travel (ON/OFF output)	±2% FS max.						
Linearity (linear output)	±1% FS max.			±1% FS max.			

Specifications continued

	Product discontinuation Model E8CC Series			Recommendable replacement Model E8F2 Series				
Item Model	E8CC-A01 C	E8CC-AN0C	E8CC-B10C	E8F2-A01C	E8F2-AN0C	E8F2-B10C		
Response time	5 ms max.	5 ms max.			5 ms max.			
Linear output	1 to 5 V with an output impedance of 20 Ω and a permissible resistive load of 10 k Ω min.			1 to 5 V with an output impedance of 1 k Ω and a permissible resistive load of 500 k Ω .				
ON/OFF output	NPN open co	ollector		NPN open collector				
Load current	80 mA max.			30 mA max.				
Output applied voltage	30 VDC max	. .		30 VDC max.				
Residual voltage	1 V max. (with a load current of 80 mA) and 0.4 V max. (with a load current of 20 mA)			1 V max. with 30 mA load current				
Protection circuits		Reversed power supply connection, load short-circuit protection			Reverse polarity protection, load short-circuit protection			
Display	21/2-digit display Red LED ON with output transistor turned ON			3.5-digit red LED Green LED bar indicator The orange LED is lit for two independent outputs with output transistor turned ON. Green unit indicator				
Display accuracy	±3% FS ±1 digit max. (within a temperature range between 0°C and 50°C) ±4% FS ±1 digit max. (within a temperature range between 50°C and 55°C)			±3% FS ±1 digit max.				
	±5% FS ±1 c	ligit max. perature range	between 0°C					
Ambient temperature	Operating: -10°C to 55°C (with no icing) Storage: -25°C to 70°C (with no icing)			Operating: 0 to 55°C (with no icing) Storage: -10 to 60°C (with no icing)				
Ambient humidity	Operating/Storage: 35% to 95% (with no icing)			Operating/Storage: 35% to 85% (with no condensation)				
Temperature influence	±0.12% FS/°C between 0°C and 50°C, ±0.2% FS/°C max. between –10°C and 0°C or 50°C and 55°C			±3% FS max.				
Voltage influence	±1.5% FS m	±1.5% FS max.		±1.5% FS max.				
Insulation resistance	$50~\text{M}\Omega$ min. (at 500 VDC) between current carrying parts and case			100 M Ω min. (at 500 VDC) between current-carrying parts and case				
Dielectric strength	1,000 VAC at 1 min		1,000 VAC at 1 min					
Vibration resistance (destruction)	10 to 500 Hz, 1.5-mm double amplitude or 100 m/s ² (10 G) for 2 hours each in X, Y, and Z directions			10 to 500 Hz, 1.0-mm double amplitude or 150 m/s ² , three times each for 11 min in the X, Y, and Z directions				
Shock resistance (destruction)	1,000 m/s ² (100 G) 3 times each in X, Y, and Z directions			300 m/s ² 3 times each in the X, Y, and Z directions				
Degree of protection	IP50 (IEC)			IP50 (IEC)				
Pressure port	R (PT) 1/8 and M5 female screws			R (PT) 1/8 taper screw and M5 female screw				
Connection method	Prewired (standard cord length: 2 m)		Prewired (standard cord length: 2 m)					
Weight (packaged)	Approx. 80 g			Approx. 110 g				
Material (Pressure port)	Aluminum			Aluminum die-cast				
Accessories	Mounting Bracket for DIN rail, Instruction manual			Mounting Bracket, Instruction manual				

Operation Ratings





Reference Documentation

Description	Media	Publication number
E8CC Data Sheet	PDF	CSM_E8CC_DS_E_3_1
E8F2 Data Sheet	PDF	CSM_E8F2_DS_E_4_2
E8AA Data Sheet	PDF	CSM_E8AA_DS_E_3_1
PSE560 General Purpose Flow Pressure Sensor Data Sheet	PDF	PSE