



Adjust to the set-value by the a or button of setting

Push Completion See abnormal values at a glance.

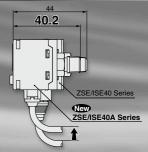




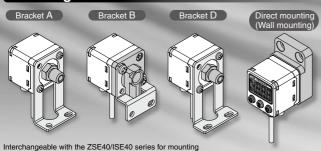
#### **Piping Variations**

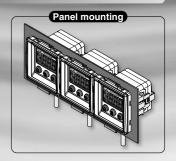
# R1/8, NPT1/8 M5 x 0.8 Rc1/8, G1/8 Rc1/8, G1/8 Rc1/8, G1/8 Rc1/8, G1/8

#### Space-saving

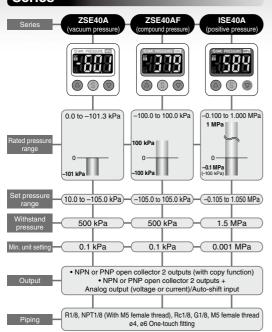


#### **Mounting Variations**





#### Series



#### Secret code setting function-----

A function to prevent operation by anyone other than the designated operator while the keys are locked.



An optional 3-digit value is entered.

\* The set-value can be checked while the keys are locked.

#### Power-saving function-----

The display can be turned off to save the power consumption. (Power consumption reduced by max. 20%)



The value disappears and decimal points start flashing.

#### Resolution conversion function-----

The flickering on the display can be eliminated.



(Only the displayed value is changed, and there is no effect on the accuracy.)

#### MPa/kPa switching function-----

The indication unit for vacuum, compound pressure and positive pressure can be integrated into either MPa or kPa.



kPa Stick the label (enclosed with the product) of a desired unit seal.

## 2-Color Display High-Precision ( E Tuber 1)

**Digital Pressure Switch** 



ZSE20 ISE20 ZSE30

ISE30

ISE40 ZSE10

ISE10

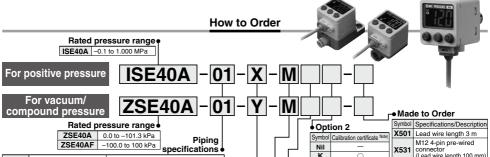
ZSE80

ISE80

PS

ISA3
ISA2
ISE35
PSE
IS
ISG
ZSM1

# ZSE40A(F)/ISE40A Series



		opcomounone •
01	R1/8 (With M5 female thread)	R1/8, NPT1/8
N01	NPT1/8 (With M5 female thread)	\ M5 x 0.8
W1	Rc1/8	Rc1/8, G1/8
WF1*	G1/8*1	Rc1/8, G1/8
M5*	M5 x 0.8 (Female thread)	M5 x 0.8
C4*	ø4 One-touch fitting	
C6*	ø6 One-touch fitting	ø4, ø6 One-touch fitting

Made to Order \* The W1 and WF1 include 1 hexagon socket head plug.
 Conforming to ISO228-1.
Combination of piping specifications with option 1 and part numbers of options

Optio	Piping									
Description	Symbol	Part no.	01	N01	W1	WF1	M5	C4	C6	
Bracket A	Α	ZS-24-A	0	0	0	0	×	×	×	
Bracket B	В	ZS-24-B	×	×	0	0	×	×	×	
Bracket D	D	ZS-24-D	0	0	0	0	×	×	×	
Panel mount adapter	Е	ZS-35-C	0	0	×	×	×	×	×	
ranei mount auaptei	_	ZS-35-D	×	×	0	0	0	0	0	
Panel mount adapter +	F	ZS-35-F	0	0	×	×	×	×	×	
Front protective cover	F	7S-35-G	X	×	0	0	0	$\circ$		

#### Output specifications

Х	NPN open collector 2 outputs (with copy function)
Υ	PNP open collector 2 outputs (with copy function)
R	NPN open collector 2 outputs + Analog voltage/Auto-shift switching
Т	PNP open collector 2 outputs + Analog voltage/Auto-shift switching
S	NPN open collector 2 outputs + Analog current/Auto-shift switching
٧	PNP open collector 2 outputs + Analog current/Auto-shift switching

When optional parts are required separately,

Options 1/Part No. use the following part numbers to place an order.							
Part no.	Option						
ZS-24-A	Bracket A Mounting screw M3 x 5L, M4 x 5L (2 pcs. for each)						
ZS-24-B	Bracket B Mounting screw M4 x 5L (2 pcs.)						
ZS-24-D	Bracket D Mounting screw M3 x 5L, M4 x 5L (2 pcs. for each)						
ZS-35-C	Panel mount adapter (Piping: For 01/N01)						
ZS-35-D	Panel mount adapter (Piping: For W1/WF1/M5/C4/C6)						
ZS-35-F	Panel mount adapter + Front protective cover (Piping: For 01/N01)						
ZS-35-G	Panel mount adapter + Front protective cover (Piping: For W1/WF1/M5/C4/C6)						

## Unit specifications Nil With unit switching function Note 1)

M Fixed SI unit Note 2)

P With unit switching function Note 1)
(Initial value psi)

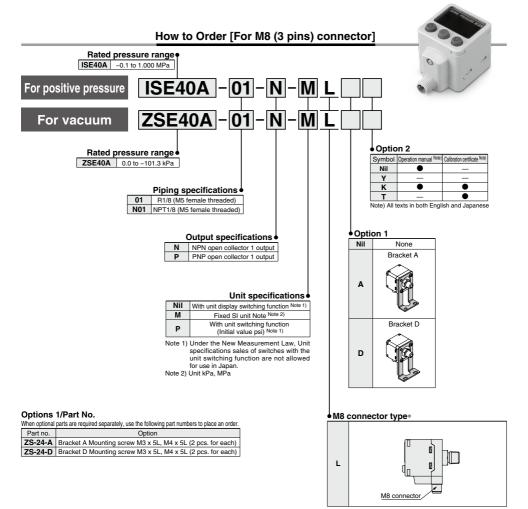
Note 1) Under the New

Measurement Law, sales of switches with the unit switching function are not allowed for use in Japan. Note 2) Unit: kPa, MPa

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			<u>,                                     </u>			_							escription
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	_				Calib	ratior	n certifi	cate No	le)		M12 4-p		
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1			K				0				(Lead wi	re length	100 mm)
			Note				both		F	Refer to	page 6	of for de	tails.
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W1/WF1/M5/C4/C6

Some options are unavailable depending on the piping specifications. Refer to "Combination of piping specifications with option 1 and part numbers of options".



<sup>\*</sup> No lead wires are connected.

#### **Specifications**

Refer to pages 11 and 12 for Pressure Switch Precautions. For details about the Specific Product Precautions, refer to the Operation Manual on the SMC website, http://www.smcworld.com Click here for details.

Model ZSE40A (vacuum pressure) ZSE40AF (compound pressure) ISE40A (positive pro						ISE40A (positive pressure)				
Rated pre	essure ra	ange		0.0 to -101.3 kPa	-100.0 to 100.0 kPa	-0.100 to 1.000 MPa				
Display/S	et press	ure i	ange	10.0 to -105.0 kPa	-105.0 to 105.0 kPa	-0.105 to 1.050 MPa				
Withstan	d pressu	ıre		500 kPa	500 kPa	1.5 MPa				
Display/N	/linimum	unit	setting	0.1 kPa	0.1 kPa	0.001 MPa				
Applicab	le fluid			Air, N	on-corrosive gas, Non-flammabl	le gas				
Power su	pply vol	tage		12 to 24 VDC ±10%, Ripp	le (p-p) 10% or less (with power	supply polarity protection)				
Current consumption					45 mA or less					
Switch or	utput			NPN or	PNP open collector 1 output or 2	2 outputs				
	Maxim	um lo	oad current		80 mA					
	Maxim	um a	pplied voltage		28 V (at NPN output)					
	Residu	al vo	ltage		1 V or less					
	Respor	nse t	ime	2.5 ms (with anti-	chattering function: 20, 100, 500	), 1000, 2000 ms)				
	Short o	ircui	t protection		Yes					
Repeat a	ccuracy				±0.2% F.S. ±1 digit					
Hysteresis	Hystere	esis	mode		Variable (0 or above) Note 1)					
Tiyotereoio	Window comparator mode				variable (0 of above)					
		te 2)	Output voltage (Rated pressure range)	1 to 5 V ±	0.6 to 5 V ±2.5% F.S.					
	Voltage	⊢ ۲	Linearity	±1% F.S.						
	output		Output impedance	Approx. 1 kΩ						
Analog		_	Output current	Approx. 1 v22						
output			(Rated pressure range)	4 to 20 mA	2.4 to 20 mA ±2.5% F.S.					
	Curren		Linearity		1					
	output			Maximum load impedance: 300 Ω (Power supply voltage 12 V)						
		Load impedance		600 Ω (Power supply voltage 24 V)						
				Minimum load impedance: 50 $\Omega$						
Auto-shif	t input			Non-voltage input (Reed or Solid state), Low level: 0.4 V or less, 5 ms or longer input						
Display				3 1/2-digit, 7-segment, 2-color LCD (Red/Green)						
Display a	ccuracy			±2% F.S. ±1 digit (Ambient temperature of 25 ±3°C)						
Indicator	light			Lights up when output is turned ON. OUT1, OUT2: Orange						
	En	nclos	ure		IP65					
	Op	erati	ng temperature range Note 4)	Operating: -5 to 50°	C, Stored: $-10$ to $60^{\circ}$ C (No freez	zing or condensation)				
Environm	nent Op	perat	ing humidity range	Operating	/Stored: 35 to 85% RH (No cond	densation)				
Withstand voltage			and voltage	1000 VAC for 1 minute between terminals and housing						
Insulation resistance			ion resistance	50 M $\Omega$ or more (500 VDC measured via megohmmeter) between terminals and housing						
Temperat	ture char	racte	ristics	±2% F.S. (25°C reference)						
Lead wire	•			Oilproof heavy-duty vinyl cable 5 cores ø3.5, 2 m Conductor area: 0.15 mm² (AWG26) Insulator O.D.: 0.95 mm						
Standard	•			20.0, 2 III Oonducte	CE, UL/CSA (E216656), RoHS					
Januara	3				CE, UL/CSA (E210000), ROHS					

Note 1) If the applied pressure fluctuates around the set-value, the hysteresis must be set to a value more than the fluctuating width, otherwise chattering will occur.

#### **Piping Specifications**

Part no.		01	N01	W1	WF1	M5	C4	C6	
Port size		R1/8 (With M5 female thread)	NPT1/8 (With M5 female thread)	Rc1/8	G1/8	M5 x 0.8 female thread	ø4 One-touch fitting	ø6 One-touch fitting	
Material Sensor pressure receiving area Silicon									
of parts in contact with fluid	Piping port	C3602 (Electrole O-ring:		ZDC2 O-ring: HNBR			ZDC2, POM, Stainless steel 304, C3604 (Electroless nickel plating) O-ring: HNBR, NBR		
Weight		78 g	79 g	97	97 g 104 g 101 g		1 g		
	M8 connector	45 g	46 g		-		_		



ZSE20 ISE20 ZSE30 ISE30

ZSE10 ISE70 ZSE80 ISE80 PS ISA3 ISA2 ISE35 PSE IS ISG

Note 2) When the analog voltage output is selected, the analog current output cannot be selected.

Note 3) When the analog current output is selected, the analog voltage output cannot be selected.

Note 4) UL temperature rating: The maximum ambient temperature is 50°C.

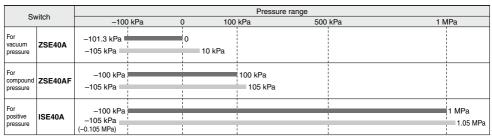
#### Set Pressure Range and Rated Pressure Range

#### Set the pressure within the rated pressure range.

The set pressure range is the range of pressure that is possible in setting.

The rated pressure range is the range of pressure that satisfies the specifications (accuracy, linearity, etc.) on the switch.

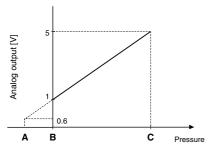
Although it is possible to set a value outside the rated pressure range, the specifications will not be guaranteed even if the value stays within the set pressure range.



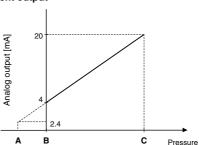
Rated pressure range of switch
Set pressure range of switch

#### **Analog Output**

#### Voltage output



#### **Current output**

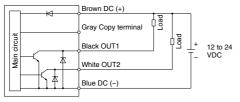


Range	Rated pressure range	Α	В	С
For vacuum pressure	0.0 to -101.3 kPa	10.1 kPa	0	-101.3 kPa
For compound pressure	-100.0 to 100.0 kPa	_	-100.0 kPa	100.0 kPa
For positive pressure	-0.100 to 1.000 MPa	-0.100 MPa	0	1.000 MPa

#### **Internal Circuits and Wiring Examples**

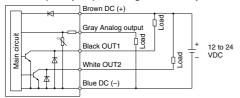
#### -X

#### NPN (2 outputs) + Copy function



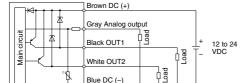
#### -R/-S

-R: NPN (2 outputs) + Analog voltage output -S: NPN (2 outputs) + Analog current output



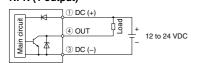
#### -T/-V

-T: PNP (2 outputs) + Analog voltage output -V: PNP (2 outputs) + Analog current output

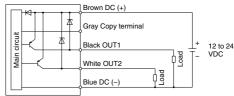


#### For M8 connector, 3 pins

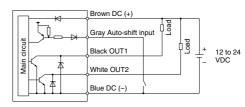
#### -N NPN (1 output)



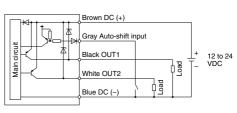
#### -Y PNP (2 outputs) + Copy function



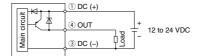
#### -R/-S NPN (2 outputs) + Auto-shift input



#### -T/-V PNP (2 outputs) + Auto-shift input



#### -P PNP (1 output)



ZSE20 ISE20 ZSE30 ISE30

ISE40 ZSE10 ISE10

ISE70

ZSE80 ISE80

ISA3

ISA2

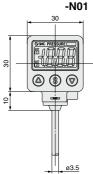
PSE

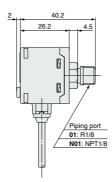
IS ISG

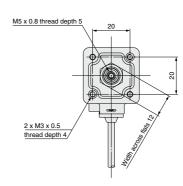
ZSM1

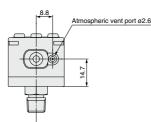
#### **Dimensions** (For details about lead wires, refer to the product specifications.)

#### ZSE40A(F)/ISE40A-01





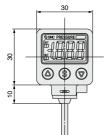


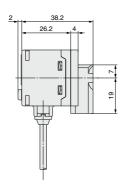


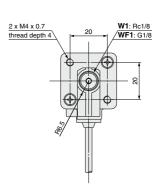
When the pressure switch is used in a place where water and dust splashes may occur, insert a tube into the atmospheric vent port, and route the other end of the tube to a safe place away from water and dust.

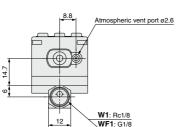
\* SMC TU0425 (polyurethane, O.D. ø4, I.D. ø2.5) suits to the pressure switch.

#### ZSE40A(F)/ISE40A-W1 -WF1









ø3.5

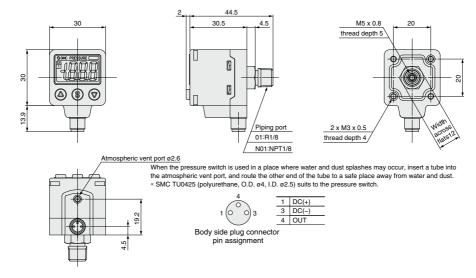
When the pressure switch is used in a place where water and dust splashes may occur, insert a tube into the atmospheric vent port, and route the other end of the tube to a safe place away from water and dust.

\* SMC TU0425 (polyurethane, O.D. ø4, I.D. ø2.5) suits to the pressure switch.

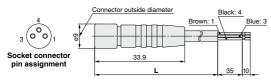


#### Dimensions/For M8 (3-pin) connector

#### ZSE40A/ISE40A-01-□-□L -N01-□-□L

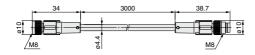


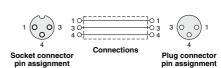
## M8 (3-pin) cable with connector V100-49-1-□



Cable length(L)	Part no.
300 mm	V100-49-1-1
500 mm	V100-49-1-2
1000 mm	V100-49-1-3
2000 mm	V100-49-1-4
5000 mm	V100-49-1-7

#### PCA-1557772





ZSE20 ISE20 ZSE30 ISE30

ZSE10 ISE10

ISE70 ZSE80 ISE80

PS ISA3

ISA2

ISE35 PSE

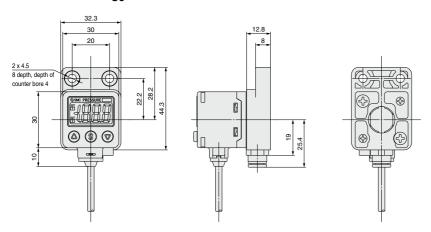
IS

ISG ZSM1

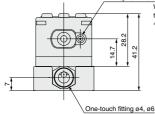
**Dimensions** (For details about lead wires, refer to the product specifications.)

#### ZSE40A(F)/ISE40A-C4

-C6

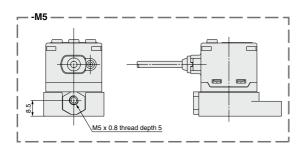


Atmospheric vent port ø2.6



When the pressure switch is used in a place where water and dust splashes may occur, insert a tube into the atmospheric vent port, and route the other end of the tube to a safe place away from water and dust. 

\* SMC TU0425 (polyurethane, O.D. ø4, I.D. ø2.5) suits to the pressure switch.

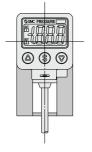


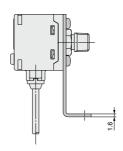
**Dimensions** (For details about lead wires, refer to the product specifications.)

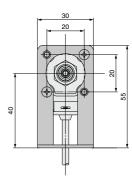
#### ZSE40A(F)/ISE40A-01-□-□A□

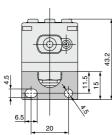
-N01-□-□A□

#### With bracket A



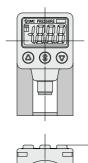


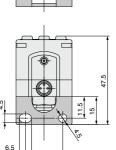


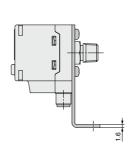


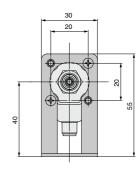
For M8 (3-pin) connector ZSE40A/ISE40A-01-□-□LA -N01-□-□LA

#### With bracket A









ZSE20 ISE20 ZSE30 ISE30

ZSE40 ISE40 ZSE10 ISE10

ISE70

ZSE80 ISE80

ISA3

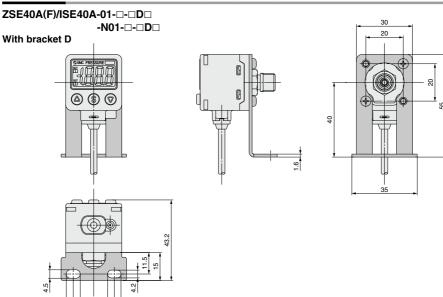
ISA2

PSE IS

ISG

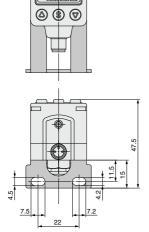
ZSM1

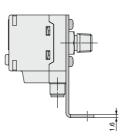
**Dimensions** (For details about lead wires, refer to the product specifications.)

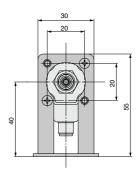


For M8 (3-pin) connector ZSE40A/ISE40A-01-□-□LD -N01-□-□LD

With bracket D





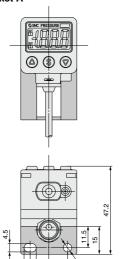


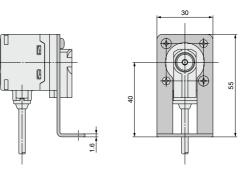
**Dimensions** (For details about lead wires, refer to the product specifications.)

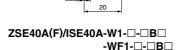
#### ZSE40A(F)/ISE40A-W1-□-□A□

-WF1-□-□A□

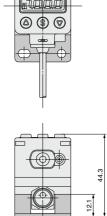
#### With bracket A

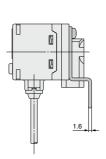


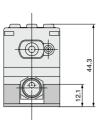


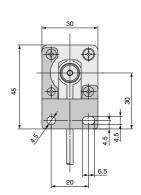


#### With bracket B









ZSE20 ISE20 ZSE30 ISE30

ZSE10 ISE10

ISE70

ZSE80 ISE80 PS

ISA3

ISA2 ISE35

> PSE IS

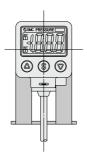
ISG ZSM1

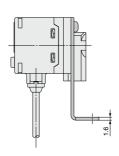
**Dimensions** (For details about lead wires, refer to the product specifications.)

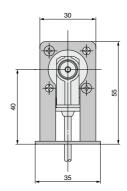
ZSE40A(F)/ISE40A-W1-□-□D□

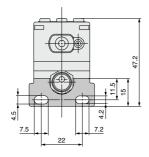
-WF1-□-□D□

#### With bracket D







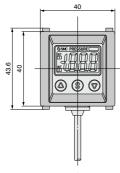


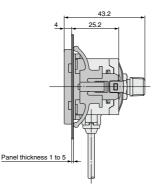
**Dimensions** (For details about lead wires, refer to the product specifications.)

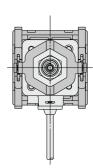
#### ZSE40A(F)/ISE40A-01-□-□E□

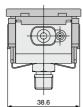
-N01-□-□E□

#### Panel mount adapter





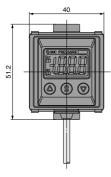


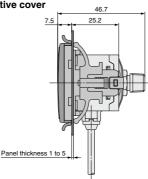


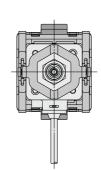
#### ZSE40A(F)/ISE40A-01-□-□F□ -N01-□-□F□

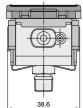
-NUI-U-UFU

Panel mount adapter + Front protective cover









ZSE20 ISE20 ZSE30 ISE30

ZSE10 ISE10

ISE70 ZSE80 ISE80

PS ISA3

ISA2

ISE35 PSE

> IS ISG

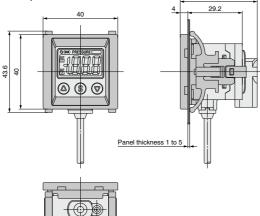
ZSM1

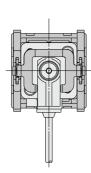
 $\label{eq:Dimensions} \textbf{Dimensions} \ \text{(For details about lead wires, refer to the product specifications.)}$ 

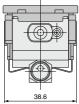
#### ZSE40A(F)/ISE40A-W1-□-□E□

-WF1-□-□E□

#### Panel mount adapter



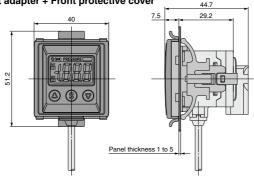


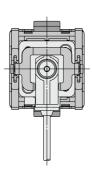


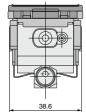
#### ZSE40A(F)/ISE40A-W1-□-□F□

-WF1-□-□F□

#### Panel mount adapter + Front protective cover





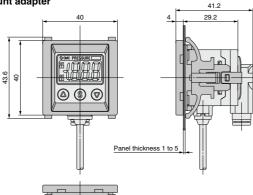


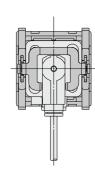
**Dimensions** (For details about lead wires, refer to the product specifications.)

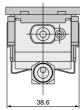
ZSE40A(F)/ISE40A-C4-□E□

-C6-□E□

Panel mount adapter



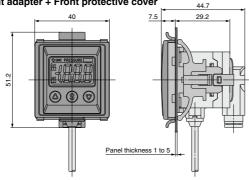


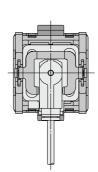


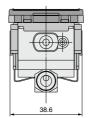
#### ZSE40A(F)/ISE40A-C4-□F□

-C6-□F□

Panel mount adapter + Front protective cover







ZSE20 ISE20 ZSE30 ISE30

> ZSE40 ISE40 ZSE10

ISE10

ZSE80 ISE80

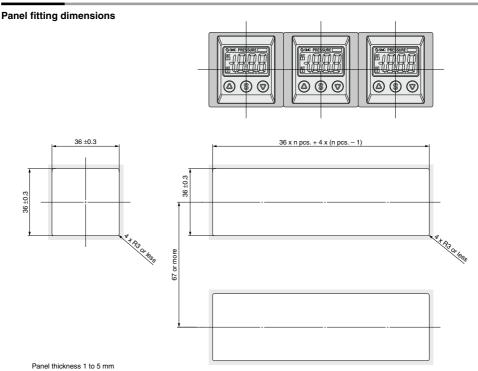
ISA3

ISA2

PSE IS

> ISG ZSM1

#### **Dimensions**



Note) This is the minimum value for the piping method 01 or N01.

Take the piping material and tubing into account for design. When the corner is to have radius, it must be R3 or less.

#### **Function Details**

The F□ in ( ) shows the function code number. Refer to the Operation Manual for the details of operation procedures and function codes. Click here for details.

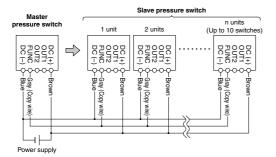
#### A Copy function (F97)

The settings of the master sensor can be copied to the slave sensors, reducing setting labor and minimizing risk of mistakes in setting.

Can copy to up to 10 switches simultaneously.

(Maximum transmission distance 4 m)





1) Wire as shown in the left figure.

- Select the slave switch which is to be the master, and change it into a master using the buttons. (In the default setting, all switches are set as slaves.)
- 3) Press the S button of the master switch to start copying.

ISG

ZSE20

ISE20

ZSE30

ZSE40 ISE40 ZSE10 ISE10

ISE70

ZSE80

ISE80

PS

ISA3

ISA2

ISE35

**PSE** 

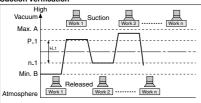
H

ZSM1

#### B Auto-preset function (F4)

Auto-preset function, when selected in the initial setting, calculates and stores the set-value from the measured pressure. The optimum set-value is determined automatically by repeating vacuum and break with the target workpiece several times.

#### **Suction Verification**



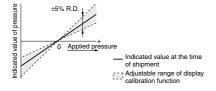
#### Formula for Obtaining the Set-Value

P_1 or P_2	H_1 or H_2
$P_1 (P_2) = A - (A-B)/4$ $n_1 (n_2) = B + (A-B)/4$	H_1 (H_2) =  (A-B) /2

#### C Display calibration function (F6)

Fine adjustment of the indicated value of the pressure sensor can be made within the range of  $\pm 5\%$  of the read value.

(The scattering of the indicated value can be eliminated.)



Note) When the display calibration function is used, the set pressure value may change  $\pm 1$  digit.

#### D Peak/Bottom value indication

This function constantly detects and updates the maximum (minimum) value and allows to hold the maximum (minimum) pressure value.

When the  $\bigcirc$   $\bigcirc$  buttons are simultaneously pressed for 1 second or longer, while "holding", the hold value will be reset.

#### E Keylock function

Prevents operation errors such as accidentally changing setting values

#### E Zero-clear function

This function clears and resets the zero value on the display of measured pressure.

For the pressure switch with analog output, the analog output shifts according to the indication. The indicated value can be adjusted within ±7% F.S. of the pressure when ex-factory. (ZSE40AF (for compound pressure) ±3.5% F.S.)

#### **Function Details**

#### G Error indication function

Error name	Error code	Description	Action		
Overcurrent	Er 1	Load current of 80 mA or more is applied to the switch output (OUT1).	Eliminate the cause of the over current by turning		
error	E-2	Load current of 80 mA or more is applied to the switch output (OUT2).	off the power supply, and then turn on it again.		
Residual pressure error	Er3	During zero-clear operation, pressure over ±7% F.S. is applied. (ZSE40AF (compound) ±3.5% F.S.) After 1 second, the mode will reset to measurement mode. ±1% F.S. of the zero-clear range varies between individual products.	Perform zero-clear operation again after restoring the applied pressure to an atmospheric pressure condition.		
Applied	HHH	Supply pressure exceeds the maximum set pressure.	Reset applied pressure to a level within the set		
pressure error	LLL	Supply pressure is below the minimum set pressure.	pressure range.		
Auto-shift error	۵٢	The value measured at the time of auto-shift input is outside the set pressure range.  * After displaying the error code for about 1 second, the switch returns to the measuring mode.	The controller does not respond to the auto-shift signal. Check the equipment and machinery for this point.		
	ErO				
	۲- ۲-				
System error	ErB	Internal data error	Turn off the power supply and then turn on it again. If the failure cannot be solved, please contact SMC		
System error	Er7		for investigation.		
	Er8				
	E-9				

If the failure cannot be solved after the above instructions are performed, please contact SMC for investigation.

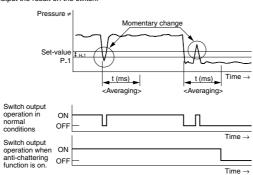
#### H Anti-chattering function (F3)

A large bore cylinder or ejector consumes a large volume of air in operation and may experience a temporary drop in the supply pressure. This function prevents detection of such temporary drops in the supply pressure as an error.

Available response time settings 20 ms, 100 ms, 500 ms, 1000 ms, 2000 ms

#### <Principle>

This function averages pressure values measured during the response time set by the user and then compares the average pressure value with the pressure set point value to output the result on the switch.



#### Display unit switching function (F0)

Display units can be switched with this function.

Display unit	ρ	R	GF	ЬЯг	P5 ,	ıπΗ	ññX
Minimum unit setting	kPa	MPa*	kgf/cm <sup>2</sup>	bar	psi	inHg	mmHg
ZSE40A (vacuum pressure)	0.1	0.001	0.001	0.001	0.01	0.1	1
ZSE40AF (compound pressure)	0.1	0.001	0.001	0.001	0.02	0.1	1
ISE40A (positive pressure)	1	0.001	0.01	0.01	0.1		

<sup>\*</sup> The ZSE40A (vacuum pressure) and ZSE40AF (compound pressure) will have different setting and display resolution when the unit is set to MPa.



The F□ in ( ) shows the function code number. Refer to the Operation Manual for the details of operation procedures and function codes. Click here for details.

#### J Power-saving mode (F80)

Power-saving mode can be selected.

It shifts to the power-saving mode without button operation for 30 seconds. It is set to the normal mode (Power-saving mode is OFF.) when ex-factory. (Decimal points and operation indicator light (only when the switch output is turned ON.) blink in the power-saving mode.)

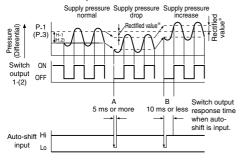
#### K Setting of secret code (F81)

Users can select whether a secret code must be entered to release key lock. At the time of shipment from the factory, it is set such that the secret code is not required.

#### Auto-shift function (F5)

When there are large fluctuations in the supply pressure, the switch may fail to operate correctly. The auto-shift function compensates such supply pressure fluctuations. It measures the pressure at the time of auto-shift signal input and uses it as the reference pressure to correct the set-value on the switch.

#### Set-value correction by auto-shift function



#### \* Rectified value

When the auto-shift is selected, "aaa" will be displayed for about 1 second, and the pressure value at that point will be saved as a rectified value "E.5". Based on the saved rectified values, the set-value Note of "P.1", "H.1", "P.2", and "H.2" will likewise be rectified.

Note) When an output is reversed, "n\_1", "H\_1", "n\_2", "H\_2" will be rectified

#### Settable Range for Auto-Shift Input

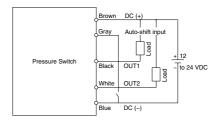
	Set pressure range	Settable range
Compound pressure	-105.0 to 105.0 kPa	-210 to 210 kPa
Vacuum pressure	10.0 to -105.0 kPa	115.0 to -115.0 kPa
Positive pressure	-0.105 to 1.050 MPa	-1.155 to 1.155 MPa

#### Auto-shift zero

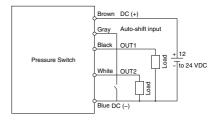
The basic function of auto-shift zero is the same as the function for auto-shift. Also, it corrects values on the display, based on a pressure value of "I", when the auto-shift is selected.

#### Connection example of auto-shift function

#### Output specifications: -R/-S NPN (2 outputs) + Auto-shift input



#### Output specifications: -T/-V PNP (2 outputs) + Auto-shift input



ZSE20 ISE20 ZSE30

ZSE40 ISE40 ZSE10

ISE10

ZSE80 ISE80

ISA3

ISA2

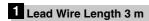
PSE IS

ISG ZSM1

## ZSE40A(F)/ISE40A Series **Made to Order**



Please contact SMC for detailed dimensions, specifications and lead times.

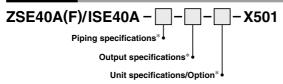


Symbol -X501

It has a lead wire extended to 3 meters.

#### How to Order

\* Refer to "How to Order" on page 47 for standard specifications.

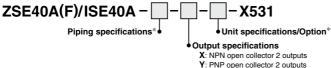


2 M12 4-pin Pre-wired Connector (Lead wire length 100 mm)

Symbol -X531

#### How to Order

\* Refer to "How to Order" on page 47 for standard specifications.



Y: PNP open collector 2 outputs

