

1 Output

# 3-Screen Display High-Precision Digital Pressure Switch

# ZSE20(F)/ISE20 Series



RoHS

IP40

## How to Order



Made to Order  
(pp. 42 to 48)

For Positive Pressure

ISE20 - N - M - M5 - [ ] - [ ] - [ ]

For Vacuum/  
Compound Pressure

ZSE20 - N - M - M5 - [ ] - [ ] - [ ]

1 2 3 4 5 6 7

### 1 Rated pressure range

ZSE20	0 to -101 kPa
ZSE20F	-100 to 100 kPa

### 2 Output specification

Symbol	Description
N	NPN open collector 1 output
P	PNP open collector 1 output






### 3 Unit specification

Symbol	Description
Nil	Units selection function*1
M	SI units only*2
P	Units selection function (Initial value psi)*1

\*1 Under the New Measurement Act, switches with the units selection function are no longer allowed for use in Japan.

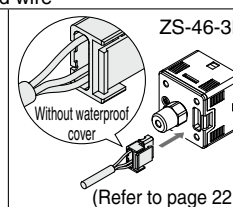
\*2 Fixed units: kPa, MPa

### 4 Piping specification

Symbol	Description	Symbol	Description	
M5	M5 female thread	C4H	One-touch fitting ø4 mm	Straight type 
	 Piping port	C6H	One-touch fitting ø6 mm	
		N7H	One-touch fitting ø1/4 inch	
01	R1/8	C4L	One-touch fitting ø4 mm	Elbow type 
	 R1/8 Piping adapter ZS-46-N1	C6L	One-touch fitting ø6 mm	
		N7L	One-touch fitting ø1/4 inch	
N01	NPT1/8	* One-touch fitting is shipped together with the product.		
	 NPT1/8 Piping adapter ZS-46-N2			

### 5 Option 1

Symbol	Description
Nil	Without lead wire
L	Lead wire with connector (3-core, 2 m lead wire)



\* For the lead wire with M12 connector, refer to page 43.

### 7 Option 3

Symbol	Operation manual*1	Calibration certificate*1
Nil	○	—
Y	—	—
K	○	○
T	—	○

\*1 All texts are in both English and Japanese.

### 6 Option 2

Symbol	Description
Nil	None
A1	Bracket A (Vertical mounting)
A2	Bracket B (Horizontal mounting)
B	Panel mount adapter
D	Panel mount adapter + Front protection cover

## Options/Part Nos.

When only optional parts are required, order with the part numbers listed below.

Description	Part no.	Note
Bracket A	ZS-46-A1	Tapping screw: Nominal size 3 x 8 L (2 pcs.)
Bracket B	ZS-46-A2	Tapping screw: Nominal size 3 x 8 L (2 pcs.)
Panel mount adapter	ZS-46-B	—
Panel mount adapter + Front protection cover	ZS-46-D	—
Lead wire with connector	ZS-46-3L	3-core, 2 m, Non-waterproof (Without waterproof cover)
Lead wire with M12 connector	ZS-46-5LM12	Made to order (Refer to page 43.)
Front protection cover	ZS-27-01	—
R1/8 Piping adapter	ZS-46-N1	R1/8
NPT1/8 Piping adapter	ZS-46-N2	NPT1/8
One-touch fitting ø4 mm straight	ZS-46-C4H	—
One-touch fitting ø6 mm straight	ZS-46-C6H	—
One-touch fitting ø1/4 inch straight	ZS-46-N7H	—
One-touch fitting ø4 mm elbow	ZS-46-C4L	—
One-touch fitting ø6 mm elbow	ZS-46-C6L	—
One-touch fitting ø1/4 inch elbow	ZS-46-N7L	—
Spacer for fitting extension	ZS-46-M5A	Made to order (Refer to page 44.)

2 Outputs + Analog Output (Voltage/Current)



# 3-Screen Display High-Precision Digital Pressure Switch

RoHS

IP40

# ZSE20A(F)/ISE20A Series

## How to Order



Made to Order  
(pp. 42 to 48)

For Positive Pressure

**ISE20A** - **X** - **M** - **M5** - [ ] - [ ] - [ ]

For Vacuum/  
Compound Pressure

**ZSE20A** - **X** - **M** - **M5** - [ ] - [ ] - [ ]

Rated pressure range

**ISE20A** -0.1 to 1 MPa

### 1 Rated pressure range

<b>ZSE20A</b>	0 to -101 kPa
<b>ZSE20AF</b>	-100 to 100 kPa

### 2 Output specification

Symbol	Description
<b>R</b>	NPN open collector 2 outputs + Analog voltage output *1
<b>S</b>	NPN open collector 2 outputs + Analog current output *1
<b>T</b>	PNP open collector 2 outputs + Analog voltage output *1
<b>V</b>	PNP open collector 2 outputs + Analog current output *1
<b>X</b>	NPN open collector 2 outputs + Copy function
<b>Y</b>	PNP open collector 2 outputs + Copy function

\*1 Can be switched to auto-shift or copy function

### 3 Unit specification

Symbol	Description
<b>Nil</b>	Units selection function*1
<b>M</b>	SI units only*2
<b>P</b>	Units selection function (Initial value psi)*1

\*1 Under the New Measurement Act, switches with the units selection function are no longer allowed for use in Japan.

\*2 Fixed units: kPa, MPa

### 4 Piping specification

Symbol	Description	Symbol	Description	
<b>M5</b>	M5 female thread	<b>C4H</b>	One-touch fitting ø4 mm	Straight type
	Piping port	<b>C6H</b>	One-touch fitting ø6 mm	
		<b>N7H</b>	One-touch fitting ø1/4 inch	
<b>01</b>	R1/8	<b>C4L</b>	One-touch fitting ø4 mm	Elbow type
	R1/8 Piping adapter ZS-46-N1	<b>C6L</b>	One-touch fitting ø6 mm	
		<b>N7L</b>	One-touch fitting ø1/4 inch	
<b>N01</b>	NPT1/8			
	NPT1/8 Piping adapter ZS-46-N2			

\* One-touch fitting is shipped together with the product.

### 5 Option 1

Symbol	Description
<b>Nil</b>	Without lead wire
<b>J</b>	Lead wire with connector (5-core, 2 m lead wire)

\* For the lead wire with M12 connector, refer to page 43.

### 7 Option 3

Symbol	Operation manual*1	Calibration certificate*1
<b>Nil</b>	○	—
<b>Y</b>	—	—
<b>K</b>	○	○
<b>T</b>	—	○

\*1 All texts are in both English and Japanese.

### 6 Option 2

Symbol	Description
<b>Nil</b>	None
<b>A1</b>	Bracket A (Vertical mounting)
<b>A2</b>	Bracket B (Horizontal mounting)
<b>B</b>	Panel mount adapter
<b>D</b>	Panel mount adapter + Front protection cover

## Options/Part Nos.

When only optional parts are required, order with the part numbers listed below.

Description	Part no.	Note
Bracket A	<b>ZS-46-A1</b>	Tapping screw: Nominal size 3 x 8 L (2 pcs.)
Bracket B	<b>ZS-46-A2</b>	Tapping screw: Nominal size 3 x 8 L (2 pcs.)
Panel mount adapter	<b>ZS-46-B</b>	—
Panel mount adapter + Front protection cover	<b>ZS-46-D</b>	—
Lead wire with connector	<b>ZS-46-5L</b>	5-core, 2 m, Non-waterproof (Without waterproof cover)
Lead wire with M12 connector	<b>ZS-46-5LM12</b>	Made to order (Refer to page 43.)
Front protection cover	<b>ZS-27-01</b>	—
R1/8 Piping adapter	<b>ZS-46-N1</b>	R1/8
NPT1/8 Piping adapter	<b>ZS-46-N2</b>	NPT1/8
One-touch fitting ø4 mm straight	<b>ZS-46-C4H</b>	—
One-touch fitting ø6 mm straight	<b>ZS-46-C6H</b>	—
One-touch fitting ø1/4 inch straight	<b>ZS-46-N7H</b>	—
One-touch fitting ø4 mm elbow	<b>ZS-46-C4L</b>	—
One-touch fitting ø6 mm elbow	<b>ZS-46-C6L</b>	—
One-touch fitting ø1/4 inch elbow	<b>ZS-46-N7L</b>	—
Spacer for fitting extension	<b>ZS-46-M5A</b>	Made to order (Refer to page 44.)

2 Outputs + Analog Output (Voltage/Current)



# 3-Screen Display High-Precision Digital Pressure Switch

RoHS

IP65

# ZSE20B(F)/ISE20B Series

For the IO-Link compatible type, refer to page 15.  
For the M12 connector type, refer to page 13-1.

## How to Order



For Positive Pressure

**ISE20B** - **X** - **M** - **M5** - [ ] [ ] [ ]

For Vacuum/  
Compound Pressure

**ZSE20B** - **X** - **M** - **M5** - [ ] [ ] [ ]



Made to Order  
(pp. 42 to 48)

### 1 Rated pressure range

<b>ZSE20B</b>	0 to -101 kPa
<b>ZSE20BF</b>	-100 to 100 kPa

### 2 Output specification

Symbol	Description
<b>R</b>	NPN open collector 2 outputs + Analog voltage output *1
<b>S</b>	NPN open collector 2 outputs + Analog current output *1
<b>T</b>	PNP open collector 2 outputs + Analog voltage output *1
<b>V</b>	PNP open collector 2 outputs + Analog current output *1
<b>X</b>	NPN open collector 2 outputs + Copy function
<b>Y</b>	PNP open collector 2 outputs + Copy function

\*1 Can be switched to auto-shift or copy function

### 3 Unit specification

Symbol	Description
<b>Nil</b>	Units selection function*1
<b>M</b>	SI units only*2
<b>P</b>	Units selection function (Initial value psi)*1

\*1 Under the New Measurement Act, switches with the units selection function are no longer allowed for use in Japan.

\*2 Fixed units: kPa, MPa

### 4 Piping specification

Symbol	Description	Symbol	Description
<b>M5</b>	M5 female thread	<b>C4L</b>	One-touch fitting ø4 mm
	Piping port	<b>C6L</b>	One-touch fitting ø6 mm
<b>01</b>	R1/8 Piping adapter ZS-46-N1	* One-touch fitting is shipped together with the product.	
<b>N01</b>	NPT1/8 Piping adapter ZS-46-N2		

### 5 Option 1

Symbol	Description
<b>Nil</b>	Without lead wire
<b>W</b>	Lead wire with connector (5-core, 2 m lead wire, With waterproof cover)

\* For the lead wire with M12 connector, refer to page 43.

### 7 Option 3

Symbol	Operation manual*1	Calibration certificate*1
<b>Nil</b>	○	—
<b>Y</b>	—	—
<b>K</b>	○	○
<b>T</b>	—	○

\*1 All texts are in both English and Japanese.

### 6 Option 2

Symbol	Description
<b>Nil</b>	None
<b>A1</b>	Bracket A (Vertical mounting) ZS-46-A1
<b>A2</b>	Bracket B (Horizontal mounting) ZS-46-A2
<b>B</b>	Panel mount adapter ZS-46-B
<b>D</b>	Panel mount adapter + Front protection cover ZS-46-D

## Options/Part Nos.

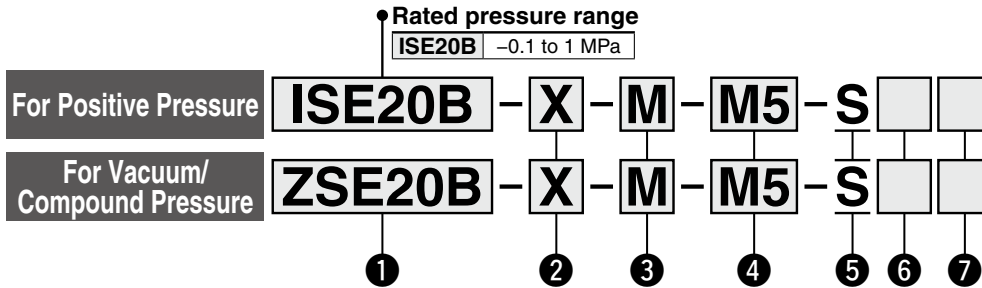
When only optional parts are required, order with the part numbers listed below.

Description	Part no.	Note
Bracket A	<b>ZS-46-A1</b>	Tapping screw: Nominal size 3 x 8 L (2 pcs.)
Bracket B	<b>ZS-46-A2</b>	Tapping screw: Nominal size 3 x 8 L (2 pcs.)
Panel mount adapter	<b>ZS-46-B</b>	—
Panel mount adapter + Front protection cover	<b>ZS-46-D</b>	—
Panel mount adapter (Compatible with the panel holes of the Z/ISE40A)	<b>ZS-46-F</b>	Made to order (Refer to page 45.)
Panel mount adapter + Front protection cover (Compatible with the panel holes of the Z/ISE40A)	<b>ZS-46-G</b>	Made to order (Refer to page 45.)
Lead wire with connector	<b>ZS-46-5F</b>	5-core, 2 m, Waterproof (With waterproof cover)
Lead wire with M12 connector	<b>ZS-46-5FM12</b>	Made to order (Refer to page 43.)
Front protection cover	<b>ZS-27-01</b>	—
R1/8 Piping adapter	<b>ZS-46-N1</b>	R1/8
NPT1/8 Piping adapter	<b>ZS-46-N2</b>	NPT1/8
One-touch fitting ø4 mm elbow	<b>ZS-46-C4L</b>	—
One-touch fitting ø6 mm elbow	<b>ZS-46-C6L</b>	—
Spacer for fitting extension	<b>ZS-46-M5A</b>	Made to order (Refer to page 44.)

# 3-Screen Display High-Precision Digital Pressure Switch **ZSE20B(F)/ISE20B Series**



## How to Order [M12 Connector Type]



**Made to Order**  
(pp. 42 to 48)

### ① Rated pressure range

<b>ZSE20B</b>	0 to -101 kPa
<b>ZSE20BF</b>	-100 to 100 kPa

### ② Output specification

Symbol	Description
<b>R</b>	NPN open collector 1 output + Analog voltage output*1
<b>S</b>	NPN open collector 1 output + Analog current output*1
<b>T</b>	PNP open collector 1 output + Analog voltage output*1
<b>V</b>	PNP open collector 1 output + Analog current output*1
<b>X</b>	NPN open collector 2 outputs
<b>Y</b>	PNP open collector 2 outputs

\*1 Can be switched to auto-shift or copy

### ③ Unit specification

Symbol	Description
<b>Nil</b>	Units selection function*1
<b>M</b>	SI units only*2
<b>P</b>	Units selection function (Initial value psi)*1

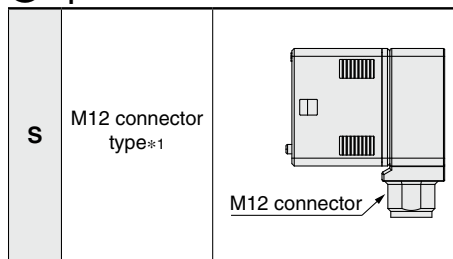
\*1 Under the New Measurement Act, switches with the units selection function are no longer allowed for use in Japan.

\*2 Fixed units: kPa, MPa

### ④ Piping specification

Symbol	Description
<b>M5</b>	M5 female thread
<b>01</b>	R1/8
<b>N01</b>	NPT1/8
<b>C4L</b>	One-touch fitting ø4 mm (Elbow type)
<b>C6L</b>	One-touch fitting ø6 mm (Elbow type)

### ⑤ Option 1



\*1 Lead wire is not included.

### ⑥ Option 2

Nil	None	
<b>A4</b>	Bracket D (For M12 connector type)	ZS-46-A4
<b>A5</b>	Bracket E (For M12 connector type)	ZS-46-A5

### ⑦ Option 3

Symbol	Operation manual*1	Calibration certificate*1
<b>Nil</b>	○	—
<b>Y</b>	—	—
<b>K</b>	○	○
<b>T</b>	—	○

\*1 All texts are in both English and Japanese.

## Options/Part Nos.

When only optional parts are required, order with the part numbers listed below.

Description	Part no.	Note
Bracket D	<b>ZS-46-A4</b>	Tapping screw: Nominal size 3 x 8 L (2 pcs.)
Bracket E	<b>ZS-46-A5</b>	Tapping screw: Nominal size 3 x 8 L (2 pcs.)
Lead wire with M12 connector (Straight)	<b>ZS-37-A</b>	3 m lead wire
	<b>ZS-31-B</b>	5 m lead wire
Lead wire with M12 connector (Right-angle)	<b>ZS-37-B</b>	3 m lead wire
	<b>ZS-31-C</b>	5 m lead wire
Lead wire with M12 connector (Connectors on both sides)	<b>EX9-AC005-SSPS</b>	0.5 m lead wire, straight
	<b>EX9-AC010-SSPS</b>	1 m lead wire, straight
	<b>EX9-AC020-SSPS</b>	2 m lead wire, straight
	<b>EX9-AC030-SSPS</b>	3 m lead wire, straight
	<b>EX9-AC050-SSPS</b>	5 m lead wire, straight
	<b>EX9-AC100-SSPS</b>	10 m lead wire, straight
R1/8 Piping adapter	<b>ZS-46-N1</b>	R1/8
NPT1/8 Piping adapter	<b>ZS-46-N2</b>	NPT1/8
One-touch fitting ø4 mm elbow	<b>ZS-46-C4L</b>	—
One-touch fitting ø6 mm elbow	<b>ZS-46-C6L</b>	—

IO-Link Compatible (1 Output)



RoHS

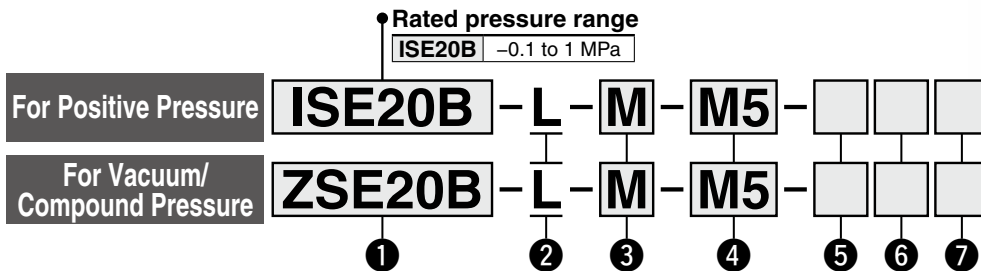
IP65

# 3-Screen Display High-Precision Digital Pressure Switch

# ZSE20B(F)-L/ISE20B-L Series

For 2 outputs + analog output type, refer to page 13.  
For the M12 connector type, refer to page 15-1.

## How to Order



### 1 Rated pressure range

<b>ZSE20B</b>	0 to -101 kPa
<b>ZSE20BF</b>	-100 to 100 kPa

### 2 Output specification

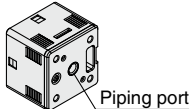
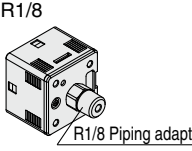
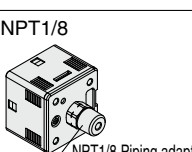
Symbol	Description
<b>L</b>	IO-Link/Switch: 1 output ⇐ (PNP or NPN switching type for switch output)

### 3 Unit specification

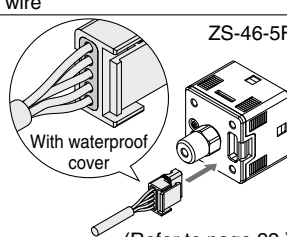
Symbol	Description
<b>Nil</b>	Units selection function*1
<b>M</b>	SI units only*2
<b>P</b>	Units selection function (Initial value psi)*1

\*1 Under the New Measurement Act, switches with the units selection function are no longer allowed for use in Japan.  
\*2 Fixed units: kPa, MPa

### 4 Piping specification

Symbol	Description
<b>M5</b>	M5 female thread 
<b>01</b>	R1/8 
<b>N01</b>	NPT1/8 

### 5 Option 1

Symbol	Description
<b>Nil</b>	Without lead wire
<b>W</b>	Lead wire with connector (5-core, 2 m lead wire, With waterproof cover) 

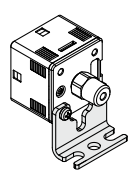
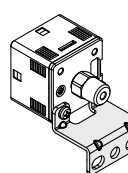
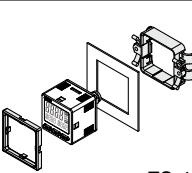
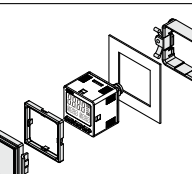
\* For the lead wire with M12 connector, refer to page 43.

### 7 Option 3

Symbol	Operation manual*1	Calibration certificate*1
<b>Nil</b>	○	—
<b>Y</b>	—	—
<b>K</b>	○	○
<b>T</b>	—	○

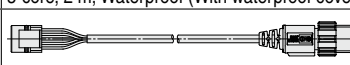


\*1 All texts are in both English and Japanese.

### 6 Option 2

Symbol	Description
<b>Nil</b>	None
<b>A1</b>	Bracket A (Vertical mounting) 
<b>A2</b>	Bracket B (Horizontal mounting) 
<b>B</b>	Panel mount adapter 
<b>D</b>	Panel mount adapter + Front protection cover 

## Options/Part Nos.

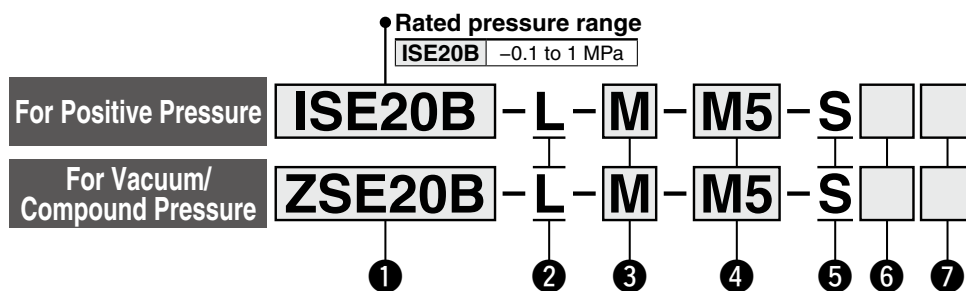
When only optional parts are required, order with the part numbers listed below.

Description	Part no.	Note
Bracket A	<b>ZS-46-A1</b>	Tapping screw: Nominal size 3 x 8 L (2 pcs.)
Bracket B	<b>ZS-46-A2</b>	Tapping screw: Nominal size 3 x 8 L (2 pcs.)
Panel mount adapter	<b>ZS-46-B</b>	—
Panel mount adapter + Front protection cover	<b>ZS-46-D</b>	—
Lead wire with connector	<b>ZS-46-5F</b>	5-core, 2 m, Waterproof (With waterproof cover)
Lead wire with M12 connector	<b>ZS-46-5FM12</b>	 Made to order (Refer to page 43.)
Front protection cover	<b>ZS-27-01</b>	—
R1/8 Piping adapter	<b>ZS-46-N1</b>	R1/8  NPT1/8 
NPT1/8 Piping adapter	<b>ZS-46-N2</b>	

# 3-Screen Display High-Precision Digital Pressure Switch **ZSE20B(F)-L/ISE20B-L Series**



## How to Order [M12 Connector Type]



### ① Rated pressure range

<b>ZSE20B</b>	0 to -101 kPa
<b>ZSE20BF</b>	-100 to 100 kPa

### ② Output specification

Symbol	Description
<b>L</b>	IO-Link/Switch: 1 output ⇐ (PNP or NPN switching type for switch output)

### ③ Unit specification

Symbol	Description
<b>Nil</b>	Units selection function*1
<b>M</b>	SI units only*2
<b>P</b>	Units selection function (Initial value psi)*1

\*1 Under the New Measurement Act, switches with the units selection function are no longer allowed for use in Japan.

\*2 Fixed units: kPa, MPa

### ④ Piping specification

Symbol	Description
<b>M5</b>	M5 female thread
<b>01</b>	R1/8
<b>N01</b>	NPT1/8

### ⑤ Option 1

<b>S</b>	M12 connector type*1	 M12 connector
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\*1 Lead wire is not included.

### ⑥ Option 2

Nil	None	
<b>A4</b>	Bracket D (For M12 connector type)	 ZS-46-A4
<b>A5</b>	Bracket E (For M12 connector type)	 ZS-46-A5





### ⑦ Option 3

Symbol	Operation manual*1	Calibration certificate*1
<b>Nil</b>	○	—
<b>Y</b>	—	—
<b>K</b>	○	○
<b>T</b>	—	○

\*1 All texts are in both English and Japanese.

## Options/Part Nos.

When only optional parts are required, order with the part numbers listed below.

Description	Part no.	Note	
Bracket D	<b>ZS-46-A4</b>	Tapping screw: Nominal size 3 x 8 L (2 pcs.)	
Bracket E	<b>ZS-46-A5</b>	Tapping screw: Nominal size 3 x 8 L (2 pcs.)	
Lead wire with M12 connector (Straight)	<b>ZS-37-A</b>	3 m lead wire	
	<b>ZS-31-B</b>	5 m lead wire	
Lead wire with M12 connector (Right-angle)	<b>ZS-37-B</b>	3 m lead wire	
	<b>ZS-31-C</b>	5 m lead wire	
Lead wire with M12 connector (Connectors on both sides)	<b>EX9-AC005-SSPS</b>	0.5 m lead wire, straight	
	<b>EX9-AC010-SSPS</b>	1 m lead wire, straight	
	<b>EX9-AC020-SSPS</b>	2 m lead wire, straight	
	<b>EX9-AC030-SSPS</b>	3 m lead wire, straight	
	<b>EX9-AC050-SSPS</b>	5 m lead wire, straight	
	<b>EX9-AC100-SSPS</b>	10 m lead wire, straight	
R1/8 Piping adapter	<b>ZS-46-N1</b>		NPT1/8 
NPT1/8 Piping adapter	<b>ZS-46-N2</b>		
One-touch fitting ø4 mm elbow	<b>ZS-46-C4L</b>	—	
One-touch fitting ø6 mm elbow	<b>ZS-46-C6L</b>	—	

2 Outputs + Analog Output (Voltage/Current)



3-Screen Display High-Precision  
Digital Pressure Switch for General Fluids

RoHS

IP65

**ZSE20C(F)/ISE20C(H) Series**

For the IO-Link compatible type,  
refer to page 27.

## How to Order



### Rated pressure range

ISE20C	-0.1 to 1 MPa
ISE20CH	-0.1 to 2 MPa

For Positive Pressure

**ISE20C - X - M - 02** [ ] - [ ] - [ ] - [ ] - [ ]

For Vacuum/  
Compound Pressure

**ZSE20C - X - M - 02** [ ] - [ ] - [ ] - [ ] - [ ]

① ② ③ ④ ⑤ ⑥ ⑦ ⑧ • Made to order  
(pp. 42 to 48)

### ① Rated pressure range

ZSE20C	0 to -101 kPa
ZSE20CF	-100 to 100 kPa

### ④ Piping specification

Symbol	Description
02	R1/4 (M5 female threaded)
N02	NPT1/4 (M5 female threaded)
F02	G1/4 (M5 female threaded)
C01	Rc1/8
A2	URJ1/4 (Face seal fitting)
B2	TSJ1/4 (Compression fitting)

### ⑤ Piping direction

Nil	Rear ported 
L	Bottom ported 

### ② Output specification

Symbol	Description
R	NPN open collector 2 outputs + Analog voltage output*1
S	NPN open collector 2 outputs + Analog current output*1
T	PNP open collector 2 outputs + Analog voltage output*1
V	PNP open collector 2 outputs + Analog current output*1
X	NPN open collector 2 outputs + Copy function
Y	PNP open collector 2 outputs + Copy function

\*1 Can be switched to auto-shift or copy function

### ③ Unit specification

Symbol	Description
Nil	Units selection function*2
M	SI units only*3
P	Units selection function (Initial value psi)*3

\*2 Under the New Measurement Act, switches with the units selection function are no longer allowed for use in Japan.

\*3 Fixed units: kPa, MPa

### ⑦ Option 2

\* Note that the optional parts that can be used vary depending on the piping direction.

Symbol	Description
Nil	None

### Rear ported (⑤ Piping direction: Nil)

Symbol	Description	Symbol	Description
A1	Bracket A 	B	Panel mount adapter 
D	Panel mount adapter + Front protection cover 		ZS-46-D

### Bottom ported (⑤ Piping direction: L)

Symbol	Description
A3	Bracket C 
E	Panel mount adapter 
F	Panel mount adapter + Front protection cover 

### ⑧ Option 3

Symbol	Operation manual*4	Calibration certificate*4
Nil	○	—
Y	—	—
K	○	○
T	—	○

\*4 All texts are in both English and Japanese.

## Options/Part Nos.

When only optional parts are required, order with the part numbers listed below.

Description	Part no.	Note
Bracket A	ZS-46-A1	For rear ported/Tapping screw: Nominal size 3 x 8 L (2 pcs.)
Bracket C	ZS-46-E	For bottom ported/Tapping screw: Nominal size 3 x 10 L (2 pcs.)
Panel mount adapter	ZS-46-B	Rear ported
Panel mount adapter + Front protection cover	ZS-35-B	Bottom ported
Panel mount adapter + Front protection cover (Compatible with the panel holes of the ZISE80)	ZS-46-D	Rear ported
Panel mount adapter + Front protection cover (Compatible with the panel holes of the ZISE80)	ZS-35-E	Bottom ported
Panel mount adapter + Front protection cover (Compatible with the panel holes of the ZISE80)	ZS-46-F	Rear ported, Made to order (Refer to page 46.)
Panel mount adapter + Front protection cover (Compatible with the panel holes of the ZISE80)	ZS-46-G	Rear ported, Made to order (Refer to page 46.)
Lead wire with connector	ZS-46-5F	5-core, 2 m, Waterproof (With waterproof cover)
Lead wire with M12 connector	ZS-46-5FM12	Made to order (Refer to page 43.)
Front protection cover	ZS-27-01	Rear ported
Front protection cover	ZS-35-01	Bottom ported
Adapter with restrictor Rc1/4	ZS-31-X175	To prevent the effects of water collision with inertia force Dimensions (Refer to page 32.)
Adapter with restrictor NPT1/4	ZS-31-X186	
Adapter with restrictor Rc1/8	ZS-31-X188	
Orifice M5	ZS-48-A	To prevent the effects of water collision with inertia force Dimensions (Refer to page 32.)

IO-Link Compatible (1 Output)



RoHS

IP65

3-Screen Display High-Precision

Digital Pressure Switch for General Fluids

# ZSE20C(F)-L/ISE20C(H)-L Series

For 2 outputs + analog output type,  
refer to page 25.

## How to Order



For Positive Pressure

ISE20C - L - M - 02

For Vacuum/  
Compound Pressure

ZSE20C - L - M - 02

### Rated pressure range

ISE20C	-0.1 to 1 MPa
ISE20CH	-0.1 to 2 MPa

1 2 3 4 5 6 7 8

### 1 Rated pressure range

ZSE20C	0 to -101 kPa
ZSE20CF	-100 to 100 kPa

### 2 Output specification

Symbol	Description
L	IO-Link/Switch: 1 output ⇐ (PNP or NPN switching type for switch output)

### 7 Option 2

\* Note that the optional parts that can be used vary depending  
on the piping direction.

Symbol	Description
Nil	None

### 3 Unit specification

Symbol	Description
Nil	Units selection function*1
M	SI units only*2
P	Units selection function (Initial value psi)*1

\*1 Under the New Measurement Act, switches  
with the units selection function are no  
longer allowed for use in Japan.

\*2 Fixed units: kPa, MPa

### 4 Piping specification

Symbol	Description
02	R1/4 (M5 female threaded)
N02	NPT1/4 (M5 female threaded)
F02	G1/4 (M5 female threaded)
C01	Rc1/8
A2	URJ1/4 (Face seal fitting)
B2	TSJ1/4 (Compression fitting)

### Rear ported (5 Piping direction: Nil)

Symbol	Description	Symbol	Description
A1	Bracket A	B	Panel mount adapter
D	Panel mount adapter + Front protection cover		

### Bottom ported (5 Piping direction: L)

Symbol	Description
A3	Bracket C
E	Panel mount adapter
F	Panel mount adapter + Front protection cover

### 5 Piping direction

Nil	Rear ported
L	Bottom ported

### 6 Option 1

Symbol	Description
Nil	Without lead wire
W	Lead wire with connector, 5-core (2 m lead wire, With waterproof cover)

\* For the lead wire with M12 connector,  
refer to page 43.

## Options/Part Nos.

When only optional parts are required, order with the part numbers listed below.

Description	Part no.	Note
Bracket A	ZS-46-A1	For rear ported/Tapping screw: Nominal size 3 x 8 L (2 pcs.)
Bracket C	ZS-46-E	For bottom ported/Tapping screw: Nominal size 3 x 10 L (2 pcs.)
Panel mount adapter	ZS-46-B	Rear ported
	ZS-35-B	Bottom ported
Panel mount adapter + Front protection cover	ZS-46-D	Rear ported
	ZS-35-E	Bottom ported
Lead wire with connector	ZS-46-5F	5-core, 2 m, Waterproof (With waterproof cover)
Lead wire with M12 connector	ZS-46-5FM12	Made to order (Refer to page 43.)
Front protection cover	ZS-27-01	Rear ported
	ZS-35-01	Bottom ported
Adapter with restrictor Rc1/4	ZS-31-X175	To prevent the effects of water collision with inertia force Dimensions (Refer to page 32.)
Adapter with restrictor NPT1/4	ZS-31-X186	
Adapter with restrictor Rc1/8	ZS-31-X188	
Orifice M5	ZS-48-A	To prevent the effects of water collision with inertia force Dimensions (Refer to page 32.)

### 8 Option 3

Symbol	Operation manual*3	Calibration certificate*3
Nil	○	—
Y	—	—
K	○	○
T	—	○

\*3 All texts are in both English and Japanese.