**2-Color Display High-Precision Digital Pressure Switch**

**Series ZSE30A(F)/ISE30A**

Can copy to up to 10 switches simultaneously.

The settings of the master sensor can be copied to the slave sensors.

- Reducing setting labor
- Minimizing risk of mistakes in setting

3-step setting

1. Push
2. Adjust to the set-value by the \(\Delta\) or \(\nabla\) button.
3. Push

Completion of setting

Added vacuum range.

- Rated pressure range: 0.0 to \(-101.0\) kPa

Expanded pressure range for positive-pressure type to the vacuum range.

- Rated pressure range: \(-0.100\) to 1.000 MPa

2 added outputs

- NPN or PNP open collector 2 outputs
- NPN or PNP open collector 1 output + Analog output (1 to 5 V or 4 to 20 mA)
**Mounting**

Bracket configuration allows mounting in four orientations.

**Bracket A**

**Bracket B/C**

**Panel mount**

Mountable side by side without clearance

**4-digit display**

4-digit display allows easy reading of displayed values.

Example: 0.5 MPa

<table>
<thead>
<tr>
<th>Series</th>
<th>ZSE30A (vacuum)</th>
<th>ZSE30AF (compound)</th>
<th>ISE30A (positive)</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Series</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td><strong>Rated pressure range</strong></td>
<td>0.0 to –101.0 kPa</td>
<td>–100.0 to 100.0 kPa</td>
<td>–0.100 to 1.000 MPa</td>
</tr>
<tr>
<td><strong>Set pressure range</strong></td>
<td>10.0 to –105.0 kPa</td>
<td>–105.0 to 105.0 kPa</td>
<td>–0.105 to 1.050 MPa</td>
</tr>
<tr>
<td><strong>Withstand pressure</strong></td>
<td>500 kPa</td>
<td>500 kPa</td>
<td>1.5 MPa</td>
</tr>
<tr>
<td><strong>Minimum unit setting</strong></td>
<td>0.1 kPa</td>
<td>0.1 kPa</td>
<td>0.001 MPa</td>
</tr>
<tr>
<td><strong>Output</strong></td>
<td>NPN or PNP open collector 1 output</td>
<td>NPN or PNP open collector 2 outputs</td>
<td>NPN or PNP open collector 1 output + Analog output (voltage or current)</td>
</tr>
<tr>
<td><strong>Piping</strong></td>
<td>R1/8, NPT1/8 (M5 female threaded)</td>
<td>ø4, ø6, ø5/32, ø1/4 One-touch fittings</td>
<td></td>
</tr>
</tbody>
</table>

**Replaceable One-touch fittings**

The clip type allows easy removal of fittings. Fitting’s type and size can be changed.

**Lead wire**

Added the connector cover.

**Additional functions**

- **Secret code setting function**
  The key locking function keeps unauthorized persons from tampering with buttons.
- **Power-saving function**
  Power consumption is reduced by turning off the monitor. (Reduce power consumption by up to 20%.)
- **Resolution-switch function**
  It reduces the monitor to flicker.
- **MPa/kPa switch function**
  Vacuum, compound and/or positive pressure can be displayed in MPa or kPa.
2-Color Display High-Precision Digital Pressure Switch

Series ZSE30A(F)/ISE30A

How to Order

For vacuum/compound pressure

ZSE30A - 01 - N - M

Rated pressure range
ZSE30A - 0 to -101 kPa
ZSE30AF -100 to 100 kPa

Output specifications
N  NPN open collector 1 output
P  PNP open collector 1 output
A  NPN open collector 2 outputs
B  PNP open collector 2 outputs
C  NPN open collector 1 output + Analog voltage output
D  NPN open collector 1 output + Analog current output
E  PNP open collector 1 output + Analog voltage output
F  PNP open collector 1 output + Analog current output

Piping specifications

01  R1/8 (M5 female threaded)
N01 NPT1/8 (M5 female threaded)
C4H One-touch fitting ø4 mm, ø5/32 inch
C6H One-touch fitting ø6 mm
N7H One-touch fitting ø1/4 inch
C4L One-touch fitting ø4 mm, ø5/32 inch
C6L One-touch fitting ø6 mm
N7L One-touch fitting ø1/4 inch

Option 1

Nil Without lead wire
L  Lead wire with connector (Lead wire length 2 m) (Note)
G  Lead wire with connector (Lead wire length 2 m) With connector cover

Option 2

Nil None
A1  Bracket A
A2  Bracket B
A3  Bracket C
B  Panel mount adapter
D  Panel mount adapter + Front protection cover

Option 3

Symbol Specifications/Description
X510 For M12 4-pin pre-wired connector
Available only for output specifications “A”, “B”, and option 1 “G”.

Made to Order (P.778)

Note) All texts in both English and Japanese.

Unit specifications

Nil With display unit (Note 1) switching function
M  Fixed SI unit (Note 2) switching function
P  With display unit (Note 1) switching function (Initial value psi)

* Made to Order

Note 1) Under the New Measurement Law, sales of switches with the unit switching function have not been allowed for use in Japan.
Note 2) Unit: kPa, MPa

Note) For output types N and P, the number of core of lead wires will be 3, and for other types, it will be 4.
Specifications

<table>
<thead>
<tr>
<th>Model</th>
<th>ZSE30A (Vacuum pressure)</th>
<th>ZSE30AF (Compound pressure)</th>
<th>ISE30A (Positive pressure)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Rated pressure range</td>
<td>0.0 to 1.0 kPa</td>
<td>–100.0 to 1.0 kPa</td>
<td>–0.10 to 1.0 kPa</td>
</tr>
<tr>
<td>Display/Set pressure range</td>
<td>10.0 to 105.0 kPa</td>
<td>–105.0 to 1.050 kPa</td>
<td>–105.0 to 1.050 kPa</td>
</tr>
<tr>
<td>Withstand pressure</td>
<td>500 kPa</td>
<td>500 kPa</td>
<td>1.5 MPa</td>
</tr>
<tr>
<td>Display/Minimum unit setting</td>
<td>0.1 kPa</td>
<td>0.1 kPa</td>
<td>0.001 MPa</td>
</tr>
<tr>
<td>Applicable fluid</td>
<td>Air, Non-corrosive gas, Non-flammable gas</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Power supply voltage</td>
<td>12 to 24 VDC ±10%</td>
<td>Ripple (p-p) 10% or less (with power supply polarity protection)</td>
<td></td>
</tr>
<tr>
<td>Current consumption</td>
<td>40 mA or less</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Switch output</td>
<td>NPN or PNP open collector 1 output, NPN or PNP open collector 2 outputs</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Maximum load current</td>
<td>80 mA</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Maximum applied voltage</td>
<td>28 V (at NPN output)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Residual voltage</td>
<td>1 V or less (with load current of 80 mA)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Response time</td>
<td>2.5 ms or less (with anti-chattering function: 20, 100, 500, 1000, 2000 ms)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Short circuit protection</td>
<td>Yes</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Repeatability</td>
<td>±0.2% F.S. ±1 digit</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Hysteresis mode</td>
<td>Variable (0 or above)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Hysteresis mode</td>
<td>Variable (0 or above)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Window comparator mode</td>
<td>Variable (0 or above)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Output voltage (Rated pressure range)</td>
<td>1 to 5V ±2.5% F.S.</td>
<td>0.6 to 5V ±2.5% F.S.</td>
<td></td>
</tr>
<tr>
<td>Linearity</td>
<td>±1% F.S.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Output impedance</td>
<td>Approx. 1 kΩ</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Current output (Rated pressure range)</td>
<td>4 to 20 mA ±2.5% F.S.</td>
<td>2.4 to 20 mA ±2.5% F.S.</td>
<td></td>
</tr>
<tr>
<td>Linearity</td>
<td>±1% F.S.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Load impedance</td>
<td>Maximum load impedance: Power supply voltage: 12 V: 300 Ω, Power supply voltage: 24 V: 600 Ω Minimum load impedance: 50 Ω</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Display</td>
<td>4-digit, 7-segment, 2-color LCD (Red/Green)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Display accuracy</td>
<td>±2% F.S. ±1 digit (Ambient temperature of 25 ±3°C)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Indicator light</td>
<td>Lights up when switch output is turned ON. OUT1: Green, OUT2: Red</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Environment</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Enclosure</td>
<td>IP40</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Operating temperature range</td>
<td>Operating: 0 to 50°C, Stored: –10 to 60°C (No freezing or condensation)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Operating humidity range</td>
<td>Operating/Stored: 35 to 85% RH (No condensation)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Withstand voltage</td>
<td>1000 VAC for 1 minute between terminals and housing</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Insulation resistance</td>
<td>50 MΩ or more (500 VDC measured via megohmmeter) between terminals and housing</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Temperature characteristics</td>
<td>±2% F.S. (25°C reference)</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Lead wire with connector</td>
<td>Oilproof heavy-duty vinyl cable, 3 cores ø3.5, 2 m 4 cores Conductor area: 0.15 mm² (AWG26), Insulator O.D.: 1.0 mm</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Standards</td>
<td>CE, UL/CSA (E126665), RoHS</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Piping Specifications

<table>
<thead>
<tr>
<th>Model</th>
<th>01</th>
<th>NO1</th>
<th>C4H</th>
<th>C5H</th>
<th>N7H</th>
<th>C4L</th>
<th>C6L</th>
<th>N7L</th>
</tr>
</thead>
<tbody>
<tr>
<td>Port size</td>
<td>R1/8 M5 x 0.8</td>
<td>NPT1/8 M5 x 0.8</td>
<td>—</td>
<td>—</td>
<td>—</td>
<td>—</td>
<td>—</td>
<td>—</td>
</tr>
<tr>
<td>One-touch fitting, Straight type</td>
<td>ø4 mm ø3/32 inch</td>
<td>ø6 mm ø1/4 inch</td>
<td>—</td>
<td>—</td>
<td>—</td>
<td>—</td>
<td>—</td>
<td>—</td>
</tr>
<tr>
<td>One-touch fitting, Elbow type</td>
<td>—</td>
<td>—</td>
<td>—</td>
<td>—</td>
<td>—</td>
<td>—</td>
<td>—</td>
<td>—</td>
</tr>
<tr>
<td>Wetted parts material</td>
<td>Sensor pressure receiving area: Silicon</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Piping port</td>
<td>C3002 (electroless nickel plating)</td>
<td>PBT, POM, Stainless steel 304, C3604 (electroless nickel plating)</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Weight</td>
<td>Including lead wire with connector (3 cores, 2 m) 81 g</td>
<td>Including lead wire with connector (4 cores, 2 m) 85 g</td>
<td>Excluding lead wire with connector 43 g</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Option/Part No.</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

For details about the Pressure Switch Precautions, refer to pages 763 and 764. For details about the Specific Product Precautions, refer to the Operation Manual at SMC website.
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.

### Switches and Pressure Ranges

<table>
<thead>
<tr>
<th>Switch</th>
<th>Pressure range</th>
<th></th>
<th></th>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>ZSE30A</td>
<td>–101 kPa to 100 kPa</td>
<td>0</td>
<td>100</td>
<td>500</td>
<td>1MPa</td>
</tr>
<tr>
<td>For vacuum</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>pressure</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>ZSE30AF</td>
<td>–100 kPa to 100 kPa</td>
<td>0</td>
<td>100</td>
<td>105</td>
<td></td>
</tr>
<tr>
<td>For compound</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>pressure</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>ISE30A</td>
<td>–100 kPa to 100 kPa</td>
<td>0</td>
<td>100</td>
<td>105</td>
<td>1MPa</td>
</tr>
<tr>
<td>For positive</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>pressure</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Rated pressure range of switch**  **Set pressure range of switch**

### Functions

- **Copy function**: Copies the settings of the master sensor to the slave sensors.
- **Auto-preset function**: This function is to calculate a rough set-value automatically based on the on-going operation.
- **Display calibration function**: Evens out deviations in the displayed value.
- **Peak display function**: Can retain the maximum pressure value displayed during measurement.
- **Bottom display function**: Can retain the minimum pressure value displayed during measurement.
- **Keylock function (Selectable secret code)**: The key board can be locked to prevent any incorrect function of the operation switch.
- **Zero-clear function**: The pressure display can be set at zero when the pressure is open to the atmosphere.
- **Anti-chattering function**: Prevents possible malfunction due to sudden fluctuations in the primary pressure by adjusting the response time.
- **Unit display switching function**: Can convert the display value.
- **Power-saving mode**: Reduces power consumption.
- **Display resolution-switch function**: Converts display resolution from the normal value of 1/1000 to 1/100.
- **kPa ↔ MPa switch function**: Converts the unit between kPa and MPa.

### Analog Output

**Voltage output**

- **Range**: 0.0 to –101.0 kPa
- **Rated pressure range**: –100 kPa
- **A**: 0
- **B**: –101 kPa
- **C**: –105 kPa

**Current output**

- **Range**: –0.100 to 1.000 MPa
- **Rated pressure range**: –0.1 MPa
- **A**: –0.1 MPa
- **B**: 0
- **C**: 1 MPa

- **Analog output [V]**: 5
- **Pressure**: 20
- **Analog output [mA]**: 20
- **Pressure**: 10

**Functions** *(Refer to pages 776 and 777 for details.)*
Internal Circuits and Wiring Examples

-N
NPN (1 output)

-B
PNP (2 outputs)

-A
NPN (2 outputs)

-C
NPN (1 output) + Analog voltage output

-D
NPN (1 output) + Analog current output

-E
PNP (1 output) + Analog voltage output

-F
PNP (1 output) + Analog current output

+ The FUNC terminal is connected when using the copy function. (Refer to "Copy function" on page 776.)
With bracket Z/ISE30A(F) – – – – – –

A1
Bracket A
(Option unit part no.: ZS-38-A1)

A2
Bracket B
(Option unit part no.: ZS-38-A2)

A3
Bracket C
(Option unit part no.: ZS-38-A3)

<table>
<thead>
<tr>
<th></th>
<th>A</th>
<th>B</th>
</tr>
</thead>
<tbody>
<tr>
<td>Bracket B</td>
<td>41.4</td>
<td>16.4</td>
</tr>
<tr>
<td>Bracket C</td>
<td>53</td>
<td>28</td>
</tr>
</tbody>
</table>

* When using the bracket B or C, install it by taking the dimensions of the piping part into consideration.
Series ZSE30A(F)/ISE30A

Dimensions

Panel mount adapter
Z/ISE30A(F) – [Diagram]

B
Panel mount adapter
(Option unit part no.: ZS-27-C)

D
Panel mount adapter + Front protection cover
(Option unit part no.: ZS-27-D)

Lead wire with connector
(Option unit part no.: ZS-38-3L)

(Option unit part no.: ZS-38-4L)

Panel thickness 0.5 to 6

Option 2
Panel fitting dimensions

1 pc. mounting

Multiple (2 pcs. or more) horizontal mounting

Multiple (2 pcs. or more) vertical mounting
**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) The sensors are connected by a dedicated lead wire (ZS-38-5L (for master and one slave) or ZS-38-U (for master and up to 10 slaves)). Copying is performed through a dedicated communication line.

2) 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.

---

**B Auto-preset function (F5)**

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**

<table>
<thead>
<tr>
<th></th>
<th>Suction</th>
<th>Release</th>
</tr>
</thead>
<tbody>
<tr>
<td>High</td>
<td>Vacum</td>
<td></td>
</tr>
<tr>
<td>Max. A</td>
<td>P.1</td>
<td>P.2</td>
</tr>
<tr>
<td>P.1</td>
<td></td>
<td></td>
</tr>
<tr>
<td>n.1</td>
<td>Min. B</td>
<td></td>
</tr>
<tr>
<td>Atmosphere</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Formula for Obtaining the Set-Value**

\[
P_{-1} \text{ or } P_{-2} = A - \frac{(A-B)}{4} \\
N_{-1} \text{ or } N_{-2} = B + \frac{(A-B)}{4} \\
H_{-1} \text{ or } H_{-2} = \frac{|A-B|}{2} \\
\]

**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 **A** (V) buttons are simultaneously pressed for 1 second or longer, while "holding", the held value will be reset.

**E Keylock function**

Prevents operation errors such as accidentally changing setting values.

**F 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. (ZSE30AF (for compound pressure) ±3.5% F.S.)
### G Error indication function

<table>
<thead>
<tr>
<th>Error name</th>
<th>Error code</th>
<th>Description</th>
<th>Action</th>
</tr>
</thead>
<tbody>
<tr>
<td>Overcurrent error</td>
<td>Er 1</td>
<td>Load current of 80 mA or more is applied to the switch output (OUT1).</td>
<td>Eliminate the cause of the over current by turning off the power supply, and then turn it on again.</td>
</tr>
<tr>
<td></td>
<td>Er 2</td>
<td>Load current of 80 mA or more is applied to the switch output (OUT2).</td>
<td></td>
</tr>
<tr>
<td>Residual pressure error</td>
<td>Er 3</td>
<td>During zero-clear operation, pressure over ±7% F.S. is applied. (ZSE30AF (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.</td>
<td>Perform zero-clear operation again after restoring the applied pressure to an atmospheric pressure condition.</td>
</tr>
<tr>
<td>Applied pressure error</td>
<td>Er 0</td>
<td>Supply pressure exceeds the maximum set pressure.</td>
<td>Reset applied pressure to a level within the set pressure range.</td>
</tr>
<tr>
<td></td>
<td>Er 4</td>
<td>Supply pressure is below the minimum set pressure.</td>
<td></td>
</tr>
<tr>
<td>System error</td>
<td>Er 6</td>
<td>Internal data error</td>
<td></td>
</tr>
<tr>
<td></td>
<td>Er 7</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Er 8</td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Er 9</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

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.

**<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.

![Diagram of anti-chattering function](attachment:image)

### I Display unit switching function (F0)

Display units can be switched with this function.

<table>
<thead>
<tr>
<th>Display unit</th>
<th>kPa</th>
<th>MPA</th>
<th>gat/cm²</th>
<th>bar</th>
<th>psi</th>
<th>inHg</th>
<th>mmHg</th>
</tr>
</thead>
<tbody>
<tr>
<td>Min. unit setting</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>ZSE30A (Vacuum pressure)</td>
<td>0.1</td>
<td>0.001</td>
<td>0.001</td>
<td>0.01</td>
<td>0.1</td>
<td>1</td>
<td></td>
</tr>
<tr>
<td>ZSE30AF (Compound pressure)</td>
<td>0.1</td>
<td>0.001</td>
<td>0.001</td>
<td>0.01</td>
<td>0.1</td>
<td>1</td>
<td></td>
</tr>
<tr>
<td>ISE30A (Positive pressure)</td>
<td>1</td>
<td>0.001</td>
<td>0.01</td>
<td>0.1</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

*The ZSE30A (vacuum pressure) and ZSE30AF (compound pressure) will have different setting and display resolution when the unit is set to MPA.*

### J Power-saving mode (F7)

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 (F8)

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.
### Series ZSE30A(F)/ISE30A

**Made to Order**

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

**1** M12 4-pin Pre-wired Connector (Lead wire length 100 mm) **X510**

#### How to Order

Refer to “How to Order” on page 769 for standard specifications.

### Output specifications

- **A**: NPN open collector 2 outputs
- **B**: PNP open collector 2 outputs

### Piping specifications

Option: G

#### Option cable

ZS-38-4GM12

**Connector pin numbers**

<table>
<thead>
<tr>
<th>Pin no.</th>
<th>Pin description</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>DC (+)</td>
</tr>
<tr>
<td>2</td>
<td>OUT (2)</td>
</tr>
<tr>
<td>3</td>
<td>DC (–)</td>
</tr>
<tr>
<td>4</td>
<td>OUT (1)</td>
</tr>
</tbody>
</table>

#### M12 4 pin connector

**Option**

1. Brown
2. White
3. Blue
4. Black