Digital Pressure Switch
(Built-in Regulator Type)
ISE35 Series

CE cULus RoHS

How to Order

ISE35–**N**–**25**–**M****L**□–□

Electrical entry

N	Wiring bottom entry
R	Wiring top entry
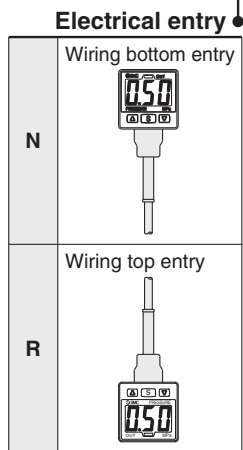
Output specifications

25	NPN output
65	PNP output

Unit specifications

Nil	With unit conversion function Note 1)
M	Fixed SI unit Note 2)
P	Pressure unit: psi (Initial value), with unit conversion function Note 1)

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) Fixed unit: MPa
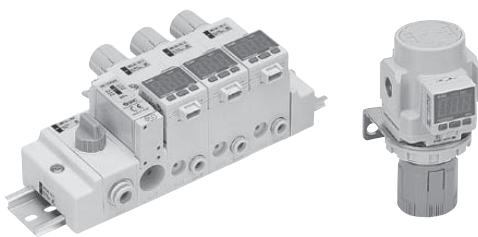
Made to Order (p. 128-1)

Symbol	Specifications
X523	AR/AW-D Series Mounting kit is included

∗ Only applicable to Option 2 (A)

Option 2

Nil	None
A	AR/AW series mounting kit
B	ARM10/11 series mounting kit

Option 1

Nil	None
L	Lead wire with connector (Length: 2 m)

Option/Part No.

When optional parts are required separately, use the following part numbers to place an order.

Name	Part No.	Note
Lead wire with connector	ZS-32-A	Length: 2 m (With rubber cover)
Mounting kit	ZS-32-C	For ISE35-□-A (AR/AW series) Mounting thread (3 x 7L, 2 pcs.), adapter, lock pin, O-ring are attached
	ZS-32-D	For ISE35-□-B (ARM10/11 series) Mounting thread (M3 x 13, 2 pcs.), adapter, lock pin, O-ring are attached
	ZS-32-C-X473	For ISE35-□-A-X523 (AR/AW-D series) Mounting thread (3 x 8L, 2 pcs.), adapter, lock pin, O-ring are attached

Applicable series

Product series that this product can be installed in.

Product series	Model
F.R.L. combination	AC20/AC25/AC30/AC50/AC55/AC60
	AC20A/AC30A/AC40A/AC50A/AC60A
	AC20B/AC25B/AC30B/AC50B/AC55B/AC60B
	AC20C/AC25C/AC30C/AC40C
	AC20D/AC30D/AC40D
Regulator	AR20 (K) /AR25 (K) /AR30 (K) /AR40 (K) / AR50 (K) /AR55 (K) /AR60 (K)
Filter regulator	AW20 (K) /AW30 (K) /AW40 (K) /AW60 (K)
Mist separator regulator	AWM20/AWM30/AWM40
Micro mist separator regulator	AWD20/AWD30/AWD40
Compact manifold regulator	ARM10/ARM11
Direct precision operated regulator	ARP20 (K) /ARP30 (K) /ARP40 (P)

SMC

Specifications

Model		ISE35
Rated pressure range		0 to 1 MPa
Display/setting pressure range		−0.1 to 1 MPa
Withstand pressure		1.5 MPa
Minimum display/setting unit		0.01 MPa
Applicable fluid		Air, Non-corrosive gas, Non-flammable gas
Power supply voltage		12 to 24 VDC ±10%, Ripple (p-p) 10% or less (With power supply polarity protection)
Current consumption		55 mA or less (at no load)
Switch output		NPN or PNP open collector output: 1 output
	Max. load current	80 mA
	Max. applied voltage	30 V (With NPN output)
	Residual voltage	1 V or less (With load current of 80 mA)
	Response time	1 s (0.25, 0.5, 2, 3s selections)
Short circuit protection		Yes
Repeatability		±1% F.S.
Hysteresis	Hysteresis mode	Adjustable (can be set from 0)
	Window comparator mode	
Display		3-digit, 7-segment indicator, 2-color display (Red/Green) A switch can be operated simultaneously.
Display accuracy		±2% F.S. ± 1 digit (at 25°C ±3°C ambient temperature)
Indicator light		Lights up when output is turned ON. (Green)
Environment	Enclosure	IP40
	Operating temperature range	−5 to 50°C (No freezing or condensation)
Lead wire with connector (Option: L)		Oil resistance vinyl cabtyre cable 3 core ø3.4 2 m Sectional area of conductor: 0.2 mm² (AWG25) Outside diameter of insulator: 1.16 mm
Weight		Approx. 14 g (Body only) Approx. 38 g (Including lead wire with connector)
Standard		CE, UL/CSA (E216656) RoHS

Side tabs: ZSE20 ISE20 / ZSE30 ISE30 / ZSE40 ISE40 / ZSE10 ISE10 / ISE70 / ZSE80 ISE80 / PS / ISA3 / ISA2 / ISE35 / PSE / IS / ISG / ZSM1

Internal Circuits and Wiring Examples

-25
NPN (1 output)
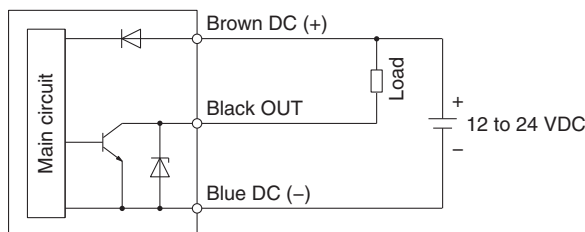
-65
PNP (1 output)
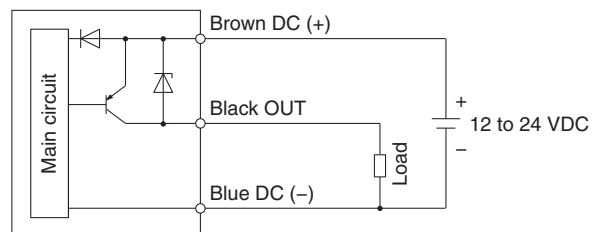
ISE35 *Series*

Dimensions

ISE35-N

ISE35-R

26.7

3.3

12.1

(11.3)

1.5

□27.8

SMC   OUT

PRESSURE   MPa

△   S   ▽

(13)

(34)

(13.2)

△   S   ▽

SMC   PRESSURE

OUT   MPa

Lead wire with connector ZS-32-A

Brown DC (+)

Black OUT (1)

Blue DC (−)

2020
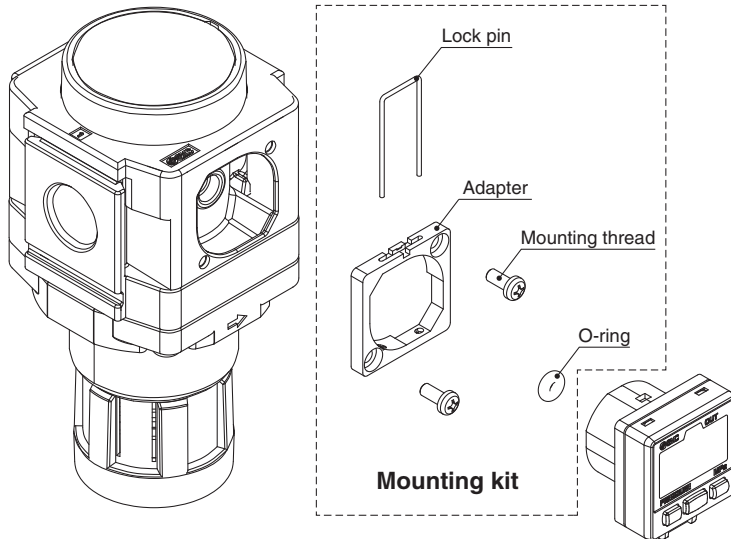
SMC
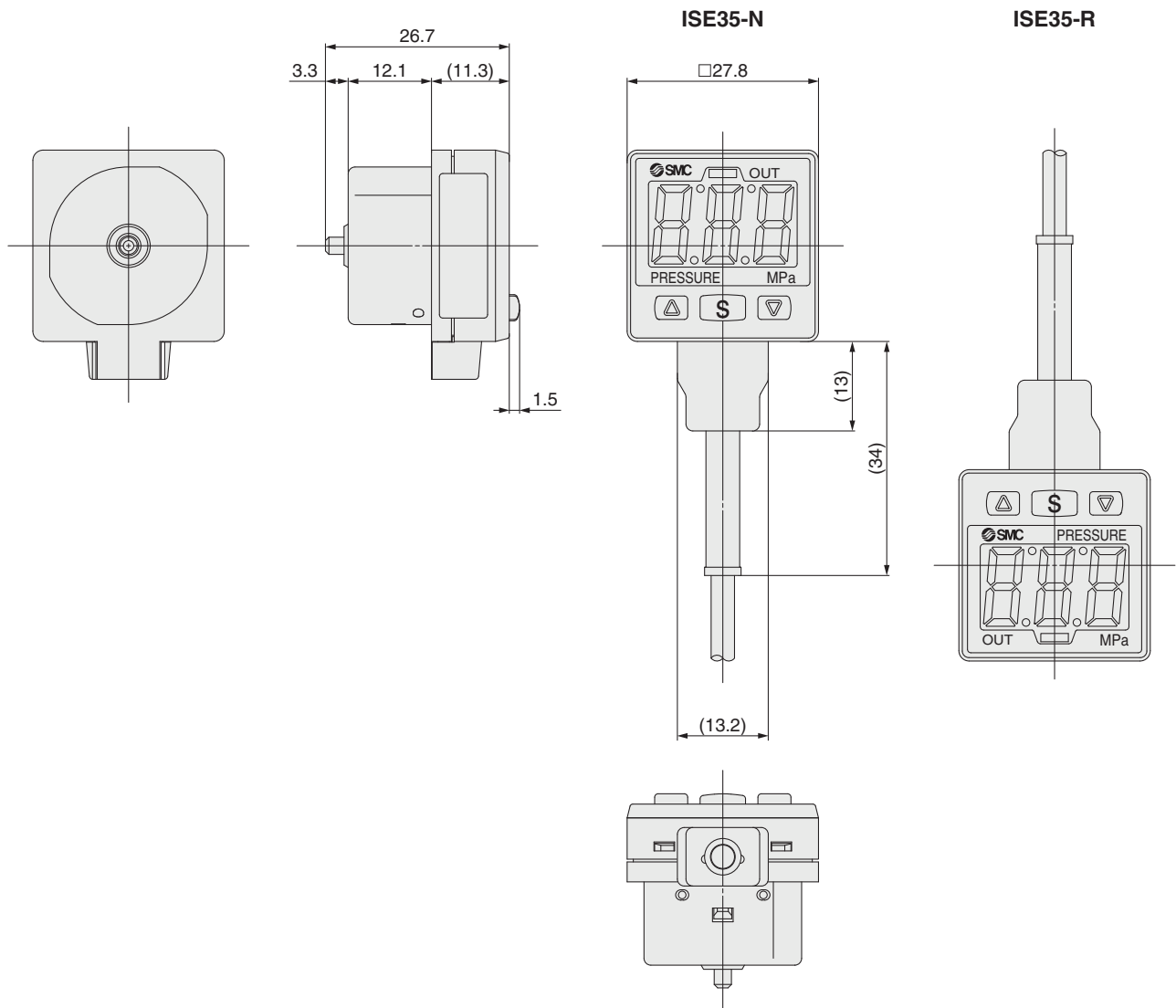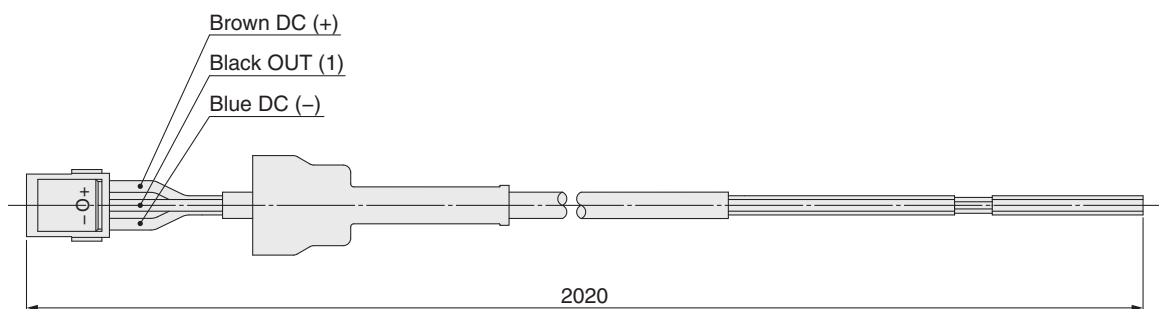
ISE35 Series
Made to Order

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

1 AR/AW-D Series Mounting Kit is Included

Mounting screws, an adapter, a lock pin, and an O-ring are shipped together with the product.

Lock pin

Adapter

Mounting thread

O-ring

Mounting kit

How to Order   ∗ Refer to "How to Order" on page 126 for standard specifications.

ISE35 ─ ☐ ─ ☐ ─ ☐ ☐ A ─ X523

Electrical entry∗ ●

Output specifications∗ ●

● Unit specifications∗

● Option 1∗

● AR/AW-D series mounting kit is included
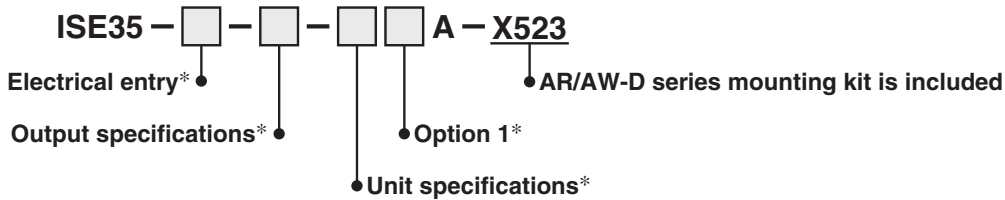
Option/Part No.

Name	Part No.	Note
Mounting kit	ZS-32-C-X473	For ISE35-☐-A-X523 (AR/AW-D series) Mounting thread (3 x 8L, 2 pcs.), adapter, lock pin, O-ring are attached

Digital Pressure Switch
(Built-in Regulator Type)

ISE35-X528

CE   c**UL**us   RoHS

How to Order

ISE35 – **N** – **25** – **M** **L** A – **X528**

Electrical entry

	Wiring bottom entry
N	
R	Wiring top entry

Output specifications

25	NPN output
65	PNP output

Unit specifications

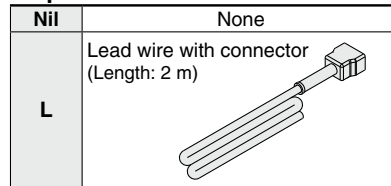| Nil	With unit selection function*1
M	Fixed SI unit*2
P	Pressure unit: psi (Initial value), with unit selection function*1

*1 Under the New Measurement Act, sales of switches with the unit switching function have not been allowed for use in Japan.
*2 Fixed unit: MPa

Fluid contact parts: Grease-free (For AR/AW-D series)

● Option 2

A	AR/AW-D series mounting kit

Lock pin
Mounting screw
Adapter
Example) Regulator
O-ring

● Option 1

Nil	None
L	Lead wire with connector (Length: 2 m)
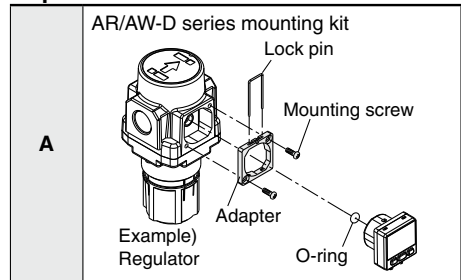
· Please read the Caution of HF- Series (p. 69) before use.

Option/Part No.

When optional parts are required separately, use the following part numbers to place an order.

Name	Part No.	Note
Lead wire with connector	ZS-32-A	Length: 2 m (With rubber cover)
Mounting kit	ZS-32-C-X527	For ISE35-□-A-X528 (AR/AW-D series) Mounting screw, adapter, lock pin, O-ring are attached

Applicable series

Product series that this product can be installed in.

Product series	Model
Regulator	AR20(K)-D/AR30(K)-D/AR40(K)-D/AR50(K)-D/AR60(K)-D
Filter regulator	AW20(K)-D/AW30(K)-D/AW40(K)-D/AW60(K)-D

Air Preparation Equipment Pressure Control Equipment/Others

Fittings and Tubing

Flow Control Equipment

Pressure Gauges

Switches/Sensors

Process Valves

Directional Control Valves

SMC