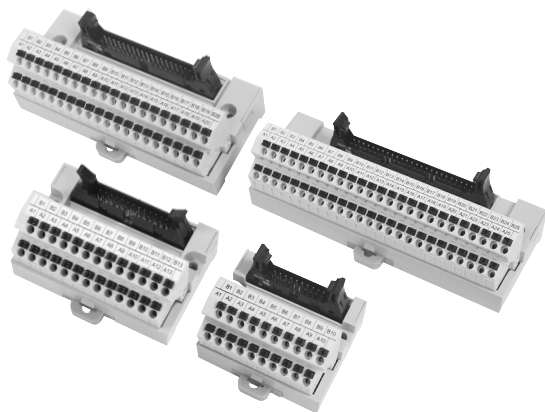


## SA Series Push-typed Screwless Terminal Block

### User's Guide



Thank you for purchasing product of SAMWON ACT.  
Please check model of product that you purchase first, and read this manual prior to use it.

#### • Caution for Safety

**⚠ Caution** Case that results in serious damage in human body or equipment, and fire if user handles this equipment wrongly

**⚠ Warning** Case that results in slight damage in human body or equipment, and fire if user handles this equipment wrongly

#### ⚠ Caution

1. When machining and wiring the mounting hole, do not allow foreign matter such as dust or wire covering to enter the connection terminal. Failure to do so may result in damage to the unit, heat, or ignition.
2. Be sure to shut off the power supply from the outside before mounting and wiring.

※ The connection cable for PLC of various makers is provided by us. Please refer to the catalogue or contact Head or branch office if you need more detail models and specifications.

#### ⚠ Warning

1. Use within the specified temperature range. (−10°C ~ +50°C)  
Damage to the outer case may occur.
2. Use within the specified rated voltage(125V AC/ 24V DC) and rated current(1A) range.  
This may result in fire or damage to the product.
3. Read this user's guide which is attached to product, and check product's nominal, characteristics, specification, wiring diagram and how to handle prior to use.
4. Please make sure to check the internal wiring diagram of the terminal block and the arrangement of the controller PIN (terminal) when making the connection cable between the controller (PLC etc.).  
It may be the cause of malfunction or damage of this equipment and user's.

#### • Model Configuration

**SA – 1H40S**

①

②

- ① Push type 5.0mm Pitch European Screwless Terminal Block
- ② Applicable connector specifications and No. of terminal Poles

#### • Model Selection

Model	No. of Poles	Mounted connector	Mounted connector Model	Cable connector Model	Dimensions (W×Dmm)	Mounting method
SA-1H20S	20	MIL Standard	HIF3BA-20PA-2.54DSA	HIF3BA-20D-2.54R	57.5 * 48.0	Screw mounting DIN Rail (Channel)
SA-1H26S	26	MIL Standard	HIF3BA-26PA-2.54DSA	HIF3BA-26D-2.54R	72.4 * 48.0	
SA-1H40S	40	MIL Standard	HIF3BA-40PA-2.54DSA	HIF3BA-40D-2.54R	107.5 * 48.0	
			XG4A-4031	XG4M-4030		
FCN 360		FCN-364P040-AU	FCN-367J040-AU			
		1747053-1	1903404-1			
SA-4F40S						
SA-1H50S	50	MIL Standard	HIF3BA-50PA-2.54DSA	HIF3BA-50D-2.54R	132.2 * 48.0	
SA-1H50B		MIL Standard	HIF3BB-50PA-2.54DSA	HIF3BB-50D-2.54R		

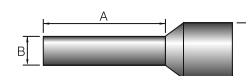
※ Mounted connector can be changed into a compatible product without advance notice.

Note) Products without buttons are also available. Please contact our company or agency.

#### • Rating/Specification

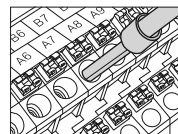
Rated voltage	125V AC / 24V DC
Rated current	1A
Insulation resistance	100MΩ or above (DC 500V)
Dielectric strength	AC 500V 1min
Applicable wire	Single wire 0.5~1.5mm <sup>2</sup>
	Twisted wire UL : 17~22AWG / IEC : 1.0mm <sup>2</sup>
Wire stripping	8~9mm
Ambient temperature	−10°C ~ +50°C (No condensation)

#### • Ferrule Selection

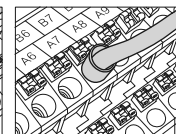


AWG/ (mm <sup>2</sup> )	DIN46228	Other	A(mm)	B(mm)	C(mm)
20/0.5	White	White/Orange	10.0	1.3	3.2
18/0.75	Gray	Blue/White	10.0	1.5	3.4
17/1.0	Red	Red/Yellow	10.0	1.7	3.6

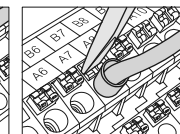
#### • Method of removal wire



When using a stranded wire, use a ferrule or a round type terminal. In case of a solid wire, use it without crimping tool.



Insert into the terminal block without using a separate tool.



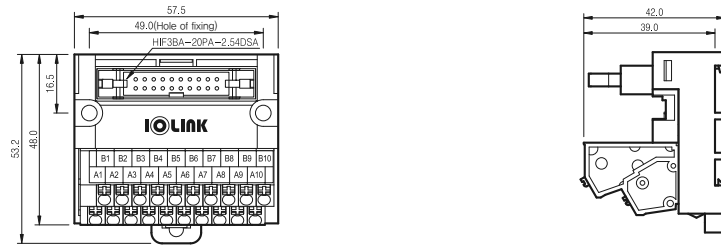
When disconnecting the wires, keep the disconnect button pressed with the driver (− type) and disconnect the wires.

#### • Material

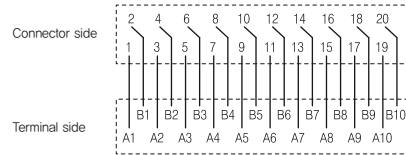
Terminal	PA66
Pin header	Copper, Tin plated
Wire guard	Stainless steel
Cover	Modified PPO
P.C.B	Epoxy 1.6t

# • SA-1H20S

## • Dimension

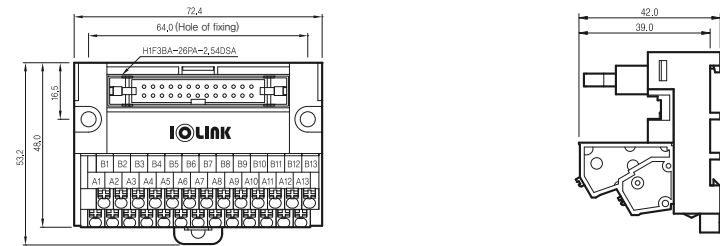


## • Wiring Diagram

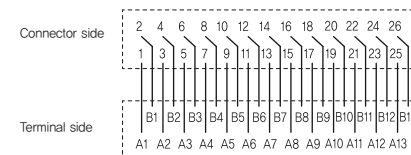


# • SA-1H26S

## • Dimension

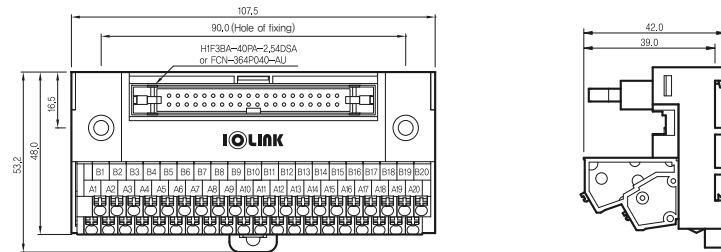


## • Wiring Diagram

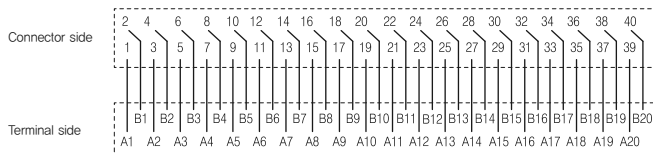


# • SA-1H40S SA-4F40S

## • Dimension



## • Wiring Diagram



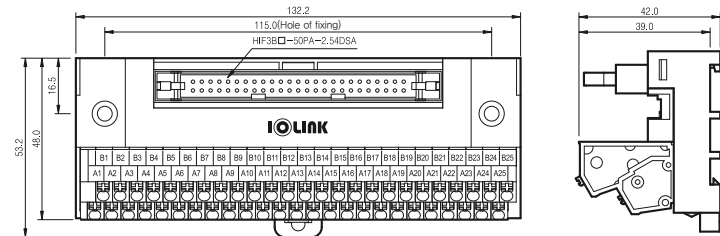
• SA-1H40S

• SA-4F40S

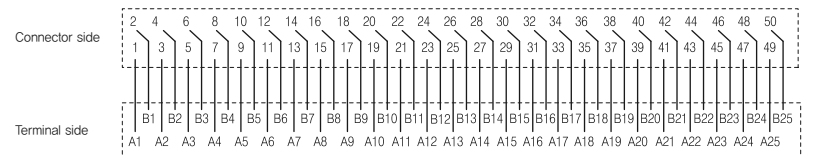
\* The PIN number on the connector side of SA-4F40S is the same as the terminal block side.

# • SA-1H50S SA-1H50B

## • Dimension



## • Wiring Diagram



• SA-1H50S

• SA-1H50B

\* The above specifications are subject to change without notice.  
\* Please contact HQ or branch office where you purchased product for A/S of this product or technique.