

INSTRUCTION SHEET



__ 10 to 11mm

Push in Socket Operating Instructions SU Series

Type No. SU4S-21L, SU2S-21L

Read this instruction sheet to make sure of correct operation before starting installation wiring, operation, maintenance, and inspection of this product. Also make sure that this instruction sheet is kept by end users. Special electrical expertise is required to install, wire, and operate the SU series sockets. People without such expertise must not use the SU series sockets.

Safety Precautions

All SU Series sockets are manufactured under IDEC's rigorous quality control system, but users must add a backup or failsafe provision to the control system using the SU series sockets in applications where heavy damage or personal injury may be caused in case the SU series sockets should fail.

In this instruction sheet, safety precautions are categorized in order of importance to Warning and Caution:

Warning notices are used to emphasize that improper operation may cause severe personal injury or death.

⚠ CAUTION

aution notices are used where inattention might cause personal injury or damage to equipment.

• Turn off power to the SU series sockets before starting installation, removal, wiring, maintenance, and inspection of the SU series sockets. Failure to turn power off may cause electrical shocks or fire hazard.

1 CAUTION

- o meet the voltage and current requirements Use proper wires to meet the voltage and current requirements.
 Make sure that relay and output equipment are connected completely.
- Incomplete connection may cause overheat, resulting in fire hazard.
- •To ensure safety, make sure that all descriptions in the operation instructions are followed strictly.
- Prevent metal fragments and pieces of wire from dropping inside the SU series sockets.
 Ingress of such fragments and chips may cause fire hazard, damage, or malfunction.
 When disposing of the SU series sockets, do so as an industrial waste.
- Do not disassemble, repair, or modify the SU series sockets.
 Make sure that wires are connected correctly.

Incorrect connection may cause malfunction, overheat, or fire hazard.

1.Wiring Instructions

When wiring, use the applicable wires shown below.

Applicable Wire (straned and solid)	0.14 to 1.5 mm²(AWG26 to 16)		
Wire Stripe Length (When the ferrule is not used)	10 to 11mm (* 1)		
Ferrule	Refer to"Wire Size and Recommended Ferrule "		

(*1) Strip the sheath of the wire 10 to 11 mm from the end. Wire Size and Recommended Ferrules

Applicable Wire			With insulation cover	
(stranded)		Wire Strip Length		
AWG	mm ²		Order number	
26	0.14	10 to 11 mm	S3TL-F014-12WC	
24	0.25	10 to 11 mm	S3TL-H025-12WJ	
22	0.34	10 to 11 mm	S3TL-H034-12WT	
20	0.50	10 to 11 mm	S3TL-H05-14WA	
		12 to 13 mm	S3TL-H05-16WA	
18	8 0.75 10 to 11 mm		S3TL-H075-14WW	
		12 to 13 mm	S3TL-H075-16WW	
18 1.00 10 to 11 mm		10 to 11 mm	S3TL-H10-14WY	
		12 to 13 mm	S3TL-H10-16WY	
16	1.50	10 to 11 mm	_	

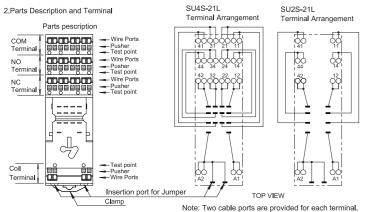
Recommended roots (Optional)						
Name	Type No.	Order number	Appricable wire			
	S3TL-CR04T	S3TL-CR04T	0.5-4mm ²			
Crimping tool	S3TL-CR06D	S3TL-CR06D	0.25-6mm ²			
	PZ6 ROTO L(*)		0.14-6mm ²			
Flat blade screwdriver	S3TL-D04-25-75	S3TL-D04-25-75				
Stripper	S3TL-ST06	S3TL-ST06	0.08 - 6mm ²			
(*) Man fort and by Markey Harr						

(*) :Manufactured by Weidmuller

Refer to the table below for other companies' ferrules that correspond to "Wire Size and Recomm

i eiiu	Terrules . Check each company's catalog for details and select.							
Applica	ble Wire	Weid	Weidmu ll er		PHOENIX CONTACT		WAGO	
(strand	led)	Without	With	Without	With	Without	With	
AWG	mm ²	insulation cover	insulation cover	insulation cover	insulation cover	insulation cover	insulation cover	
26	0.14	-	H0.14/12 GR SV	-	AI 0.14-8 GY-1000	-	-	
24	0.25	-	H0.25/12 HBL	-	AI 0.25-8 YE	-	FE-0.25-8N-YE	
22	0.34	-	H0.34/12 TK	-	AI 0.34-8 TQ	-	FE-0.34-8N-TQ	
20	0.50	H0.5/10	H0.5/14 OR	A 0.5-8	AI 0.5-8 WH	FE-0.5-8	FE-0.5-8N-WH	
		-	H0.5/16 OR	A 0.5-10	AI 0.5-10 EH	FE-0.5-10	FE-0.5-10N-WH	
18	0.75	H0.75/10	H0.75/14 W	A 0.75-8	AI 0.75-8 GY	FE-0.75-8	FE-0.75-8N-GY	
		-	H0.75/16 W	A 0.75-10	AI 0.75-10 GY	FE-0.75-10	FE-0.75-10N-GY	
18	1.00	H1.0/10	H1.0/14 GE	A 1.0-8	-	FE-1.0-8	-	
		-	H1.0/16 GE	A 1.0-10	-	FE-1.0-10	-	
16	1.50	H1.5/10	-	A 1.5-10	-	FE-1.5-10	-	

 Make sure that the stranded wires do not loosen when using wiring without ferrules.
 Note the crimping dimensions, when using tools other than the recommended crimping tool. Please see 3-3 for details. •Use a flat blade screwdriver with a blade size of 0.4×2.5mm.

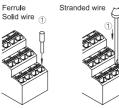


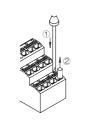
3. Wiring Instructions

3-1.Inserting the wire Insert the wire to the back of the wire port. When using a stranded wire, insert the wire while pressing the pusher with a flathead screwdriver

3-2.Removing the wire Pushing the pusher with a flathead screwdriver, remove the wire straight in the arrow direction

Flathead screwdriver





⚠ CAUTION

- •After wiring, tug lightly to make sure that the wire is properly connected.
- Operate the pusher with a force of 40N. Do not press excessive
- •Do not pull the wire out without depressing the pusher. When pulling the wire, be sure to pull in a straight direction. Otherwise, the socket may be damaged.

 •Use a recommended flat blade screwdriver with the blade size of 0.4×2.5mm.

3-3. Cautions on ferrule crimp shape and connection

⚠ CAUTION

- Choose an appropriate ferrule for the wire.

 Cut the wire carefully to get a flat end.
- Make sure that ferrule sleeve is completely filled by the conductor.

 Depending on the cross section, the conductor should protude approx. 0 to 1 mm from the ferrule sleeve.
- When crimping, refer to the instructions of the crimping tool. Maximum connectable crimping size is W2.4×H1.9.
- Make sure that the ferrule size will be smaller than this dimension.

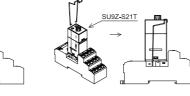
 •If a tool other than the recommended crimping is used, the ferrule
- may not be crimped to the appropriate size and the clamp or spring inside the socket may be deformed and may not operate normally.
- Pin crimp terminals cannot be used.

4.Installing the Hold-down Spring for Relay and Timer

When using SU9Z-S21R (for relay) or SU9Z-S21T (for timer) hold-down spring, install the hold-down springs into approriate spring insert hole. To install, see below diagram.

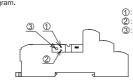
Make sure that it is inserted in approriate spring insert hole. The product may fall.

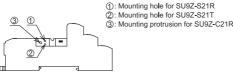




5. Installing the Release lever
When using SU9Z-C21R (for relay) release lever, attach the release lever to appropriate protrusion of the

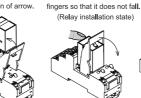


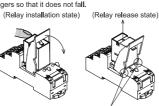




6.Installing / Removing the relay when using the release level 6-2 Removing the relay

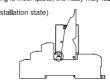
- 6-1.Installing the relay
 (1) Tilt the release lever (2) Insert the relay and Remove the relay by tilting the release lever in the direction of the arrow while holding it lightly with
- in the direction of the tilt the release lever in





⚠ CAUTION

 Push the relay until it is completely installed. If the mounting is incomplete, the relay may fall off.



♠ CAUTION

. When removing the relay, the relay may pop out and the relay may be lost. Remove it while preventing it from popping out with your fingers. The release lever has a detachable structure.

If it is operated with excessive force, it will come off



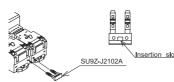
the socket, causing the relay to fall off or be damaged.

7.Installing the Marking Plate Install the marking plate as shown in the diagram below. Mark on the durface using an oil-based

marker,or affix a sticker with markings. The size of the marking surface is 8.4mm × 25mm.

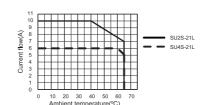


 Using the Jumper
 Insert the jumper to the back of the jumper slot. To remove, insert the flat blade driver into the slot it at 2A or less.



9.Safety Precaution

9-1.When using with RU ,RN series relay, check the derating in the table below before using.



/ CAUTION

•When mounting the socket on a DIN rail, be sure to fix both sides with End Clip BNL6 (option). •Do not mount the socket on the rail and remove the socket from the rail at temperatures below -20°C, otherwise the socket may be damaged.

10.Disposal Precautions Usage Precautions

↑ CAUTION

en disposing of this product, treat it as industrial waste.

IDEC CORPORATION

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