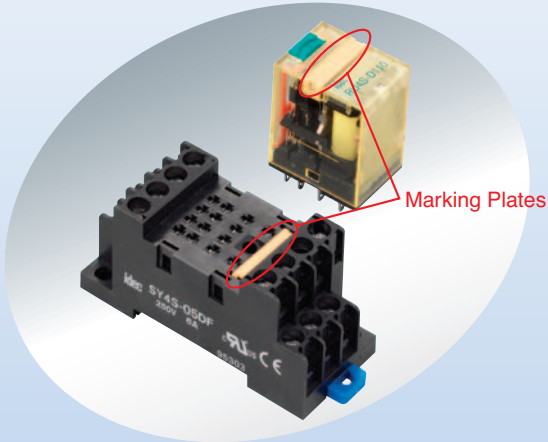


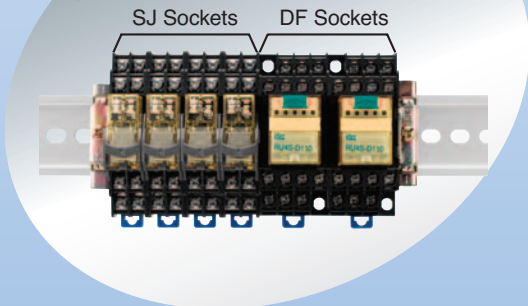
RoHS Directive Compliant!



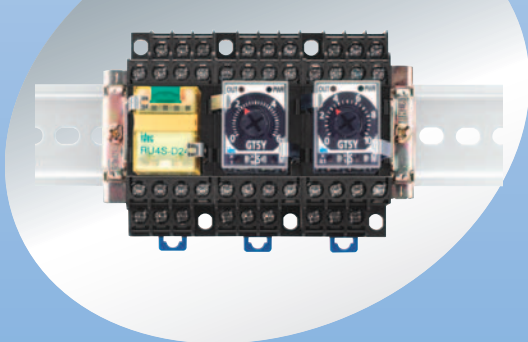
Sockets use the same marking plates as the RU relays



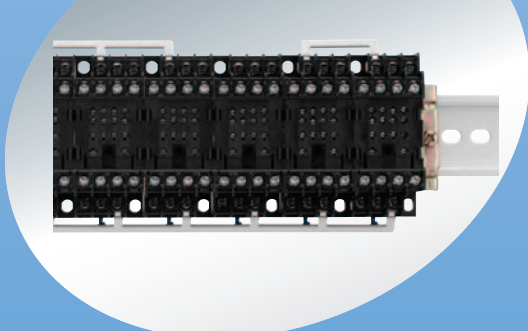
Similar dimensions to SJ series sockets, allowing easy and efficient wiring.



Mount compact GT5Y timers

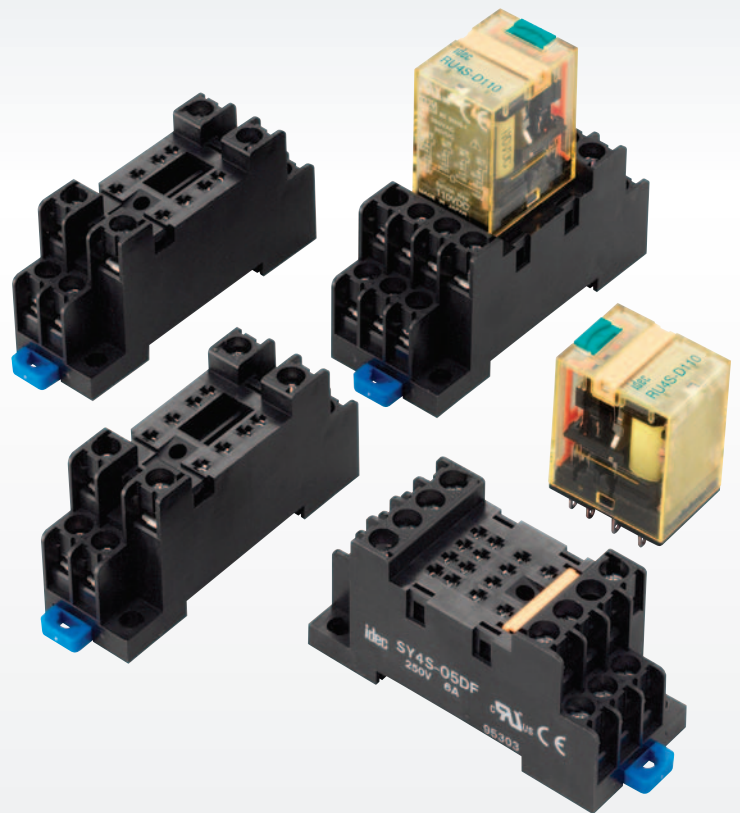


Jumpers available for easy wiring



DF

Finger-safe Sockets



IDEC IZUMI CORPORATION

DF Finger-safe Sockets

Finger-safe sockets – compliant with RoHS.

- RoHS directive compliant (2002/95/EC). Contains no lead, cadmium, mercury, hexavalent chromium, PBB, or PBDE.
- Accepts the same marking plates as the RU series relays, allowing for easy identification of circuits.
- Fork style jumpers available for easy wiring of adjoining sockets.
- The SM2S-05DF can also mount 4-pole relays when using only 2 poles.
- UL, c-UL recognized, CE marked.



Specifications

Type	SM2S-05DF	SY4S-05DF
No. of Poles	2 poles	4 poles
Rated Insulation Voltage	250V AC/DC	
Rated Current	10A	6A
Insulation Resistance	100 MΩ minimum (500V DC megger)	
Applicable Wire	1.25 mm ² (2 mm ² maximum)	
Screw Terminal	M3 slotted Phillips	
Terminal Screw Tightening Torque	0.6 to 1.0 N·m (maximum tightening torque: 1.2 N·m)	
Dielectric Strength	2000V AC, 1 minute	
Operating Temperature	-55 to +70°C (no freezing)	
Degree of Protection	IP20	
Weight	40g	56g
Applicable Relay	RU2S, RM2S	RU4S, RU42S, RY4S, RY42S
Applicable Timer	GT5Y-2	GT5Y-4
Standards	UL508, CSA C22.2 No. 14, EN60999-1	

Accessories

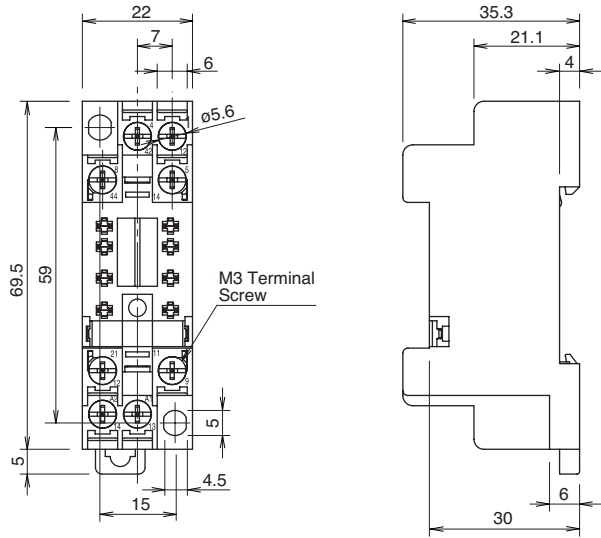
Name	Type No.	Ordering Type No.	Package Quantity	Description	
Relay Hold-down Spring	SFA-502	SFA-502PN20	20	Stainless steel	
Timer Hold-down Spring	SFA-511	SFA-511PN20			
Jumper (SM series)	2 sockets	SM9Z-JF2	10	For SM2S-05DF	
	5 sockets	SM9Z-JF5			
	8 sockets	SM9Z-JF8			
Jumper (SY series)	2 sockets	SY9Z-JF2		For SY4S-05DF	
	5 sockets	SY9Z-JF5			
	8 sockets	SY9Z-JF8			
Marking Plate	RU9Z-P*	RU9Z-P*PN10		10	Compatible with RU relays.
DIN Rail (1000 mm)	BAA1000	BAA1000PN10			Aluminum
	BAP1000	BAP1000PN10	Steel		
Mounting Clip	BNL5	BNL5PN10	Steel		
	BNL6	BNL6PN10	Steel		
DIN Rail Spacer	SA-406B	SA-406B	1	Thickness: 5 mm Used for adjusting spacing between sockets mounted on a DIN rail	

Note: Insert a color code in place of *. A (amber), G (green), S (blue), W (white), Y (yellow)

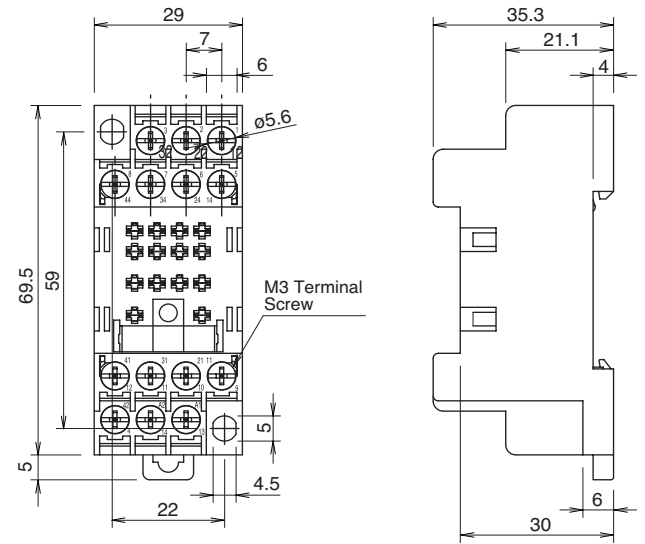
Dimensions

Sockets

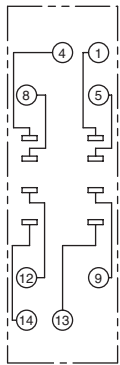
• SM2S-05DF



• SY4S-05DF

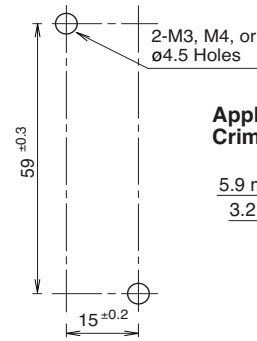


Terminal Arrangement

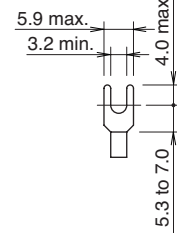


Top View

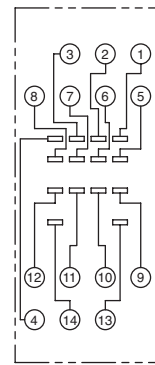
Mounting Hole Layout



Applicable Crimping Terminal

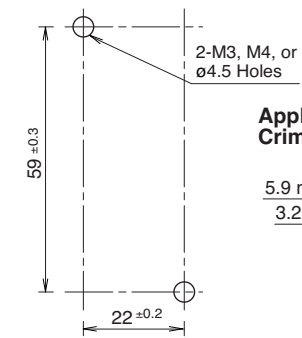


Terminal Arrangement

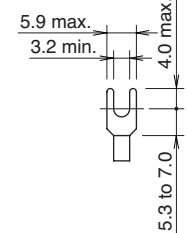


Top View

Mounting Hole Layout



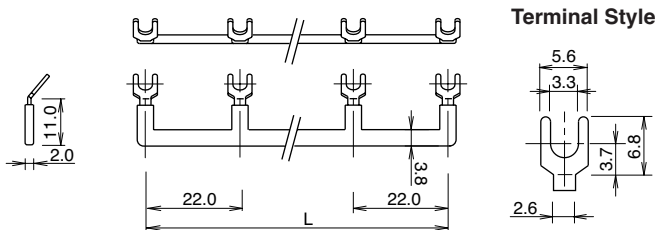
Applicable Crimping Terminal



All dimensions are in mm.

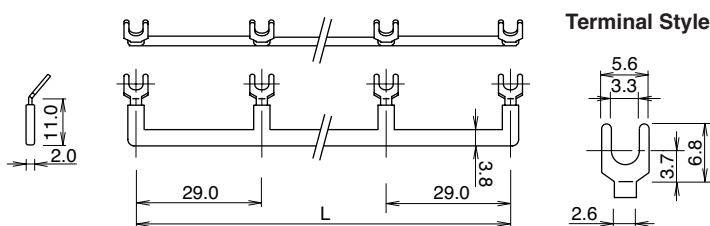
Insulated Fork Jumpers

• For SM2S-05DF



Type No.	L (mm)	No. of Sockets
SM9Z-JF2	22	2
SM9Z-JF5	88	5
SM9Z-JF8	154	8

• For SY4S-05DF



Type No.	L (mm)	No. of Sockets
SY9Z-JF2	29	2
SY9Z-JF5	116	5
SY9Z-JF8	203	8

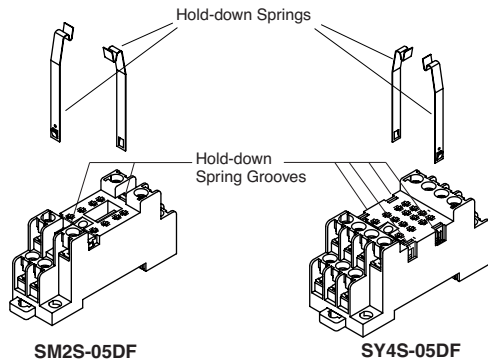
DF Finger-safe Sockets

Operating Instructions

Hold-down Springs

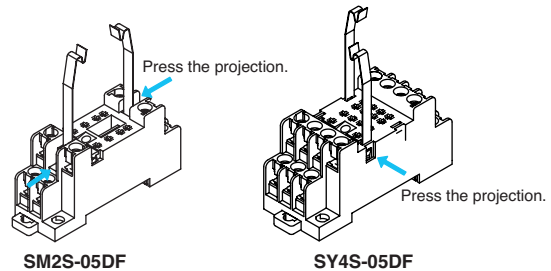
Installation

Insert hold-down springs into the grooves as shown below. Make sure that the small projections on the springs are facing outward.



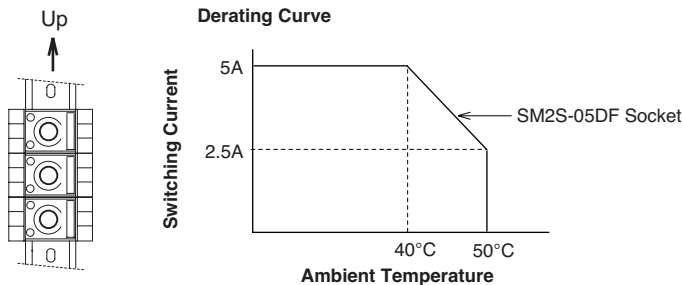
Removal

Remove hold-down springs by lifting them up while depressing the small projections on the hold-down springs.



Using GT5Y-2 Timers and SM2S-05DF Sockets

When installing two or more GT5Y-2 timers on SM2S-05DF sockets in close mounting proximity as shown below, take the derating curve into consideration.



Safety Precautions

- Turn off power to the socket before starting installation, removal, wiring, maintenance, and inspection of the relays. Failure to turn power off may cause electrical shock or fire hazard.
- Do not touch the terminals while power is applied, otherwise electrical shock or fire hazard may result.
- Use wires of the proper size to meet voltage and current requirements. Tighten terminal screws on the socket to the proper tightening torque. Do not tighten more than the maximum torque. Also, do not leave the terminal screws tightened loosely, otherwise overheating may result in fire hazard.
- Observe specifications and rated values, otherwise electrical shock or fire hazard may be caused.

Specifications and other descriptions in this catalog are subject to change without notice.



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