

Relay Sockets

DF Series

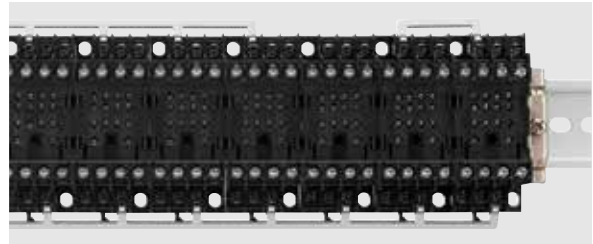


Easy-to-use relay sockets for various applications.



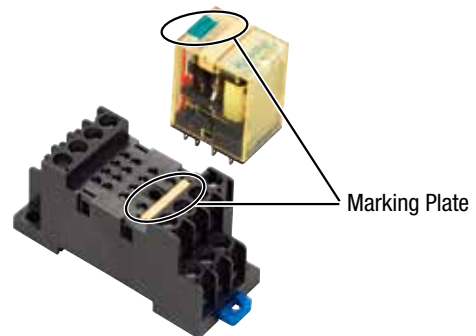
• See website for details on approvals and standards.

Jumpers available for easy wiring

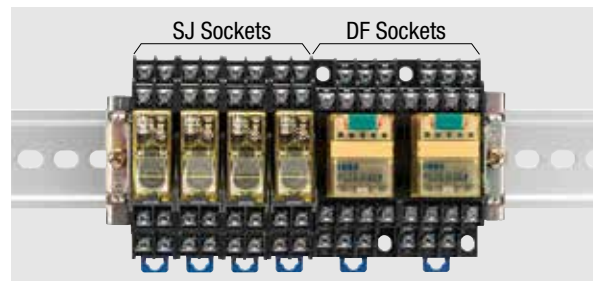


Sockets use the same marking plates as the RU relays

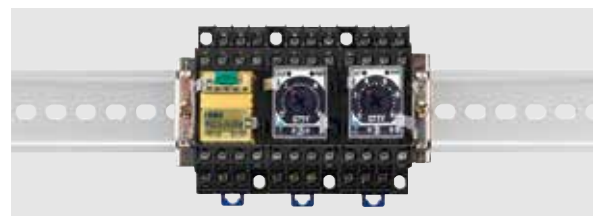
Accepts the same marking plates as the RU series relays, allowing for easy identification of circuits.



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



Mount compact GT5Y timers



APEM

Switches &
Pilot Lights

Control Boxes

Emergency
Stop SwitchesEnabling
Switches

Safety Products

Explosion Proof

Terminal Blocks

Relays & Sockets

Circuit
Protectors

Power Supplies

LED Illumination

Controllers

Operator
Interfaces

Sensors

AUTO-ID

Relays

Sockets

DIN Rail
Products

SJ

DF

SU

S

DF Series Relay Sockets



Specifications

Model	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 (between live and dead metal parts, between live metal parts of different poles)	
Operating Temperature	-55 to +70°C (no freezing)	
Operating Humidity	45 to 85% RH (no condensation)	
Storage Temperature	-55 to +70°C (no freezing)	
Storage Humidity	45 to 85% RH (no condensation)	
Degree of Protection	IP20	
Weight	40g	56g
Applicable Relay/Timer	RU2S, RM2S, GT5Y-2	RU4S, RU42S, RY4S, RY42S, GT5Y-4
Applicable Hold-down Spring for Relay/Timer	SFA-503 (RU relay), SFA-502(RM relay), SFA-511 (timer)	SFA-502 (relay), SFA-511 (timer)
Standards	UL508, CSA C22.2 No. 14, EN60999-1	

Accessories

Name	Part No.	Ordering No.	Package Quantity	Description
Relay Hold-down Spring	SFA-502	SFA-502PN20	20	Stainless steel
	SFA-503 (Note 1)	SFA-503PN20		Stainless steel
Timer Hold-down Spring	SFA-511	SFA-511PN20		Stainless steel
Jumper (SM series)	2 sockets	SM9Z-JF2	10	For SM2S-05DF (Note 2)
	5 sockets	SM9Z-JF5		
	8 sockets	SM9Z-JF8		
Jumper (SY series)	2 sockets	SY9Z-JF2		For SY4S-05DF (Note 2)
	5 sockets	SY9Z-JF5		
	8 sockets	SY9Z-JF8		
Marking Plate	RU9Z-P*	RU9Z-P*PN10		Compatible with RU relays.
DIN Rail (1000 mm)	BAA1000	BAA1000PN10		Aluminum
	BAP1000	BAP1000PN10		Steel
End 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 1: Used when using SM2S-05DF with RU relay (cannot be used with SY4S-05DF)

Note 2: Make sure that the total current to the jumper does not exceed the rated current.
Insert a color code in place of *. A (amber), G (green), S (blue), W (white), Y (yellow)



Download catalogs and CAD from <http://asia.idec.com/downloads>

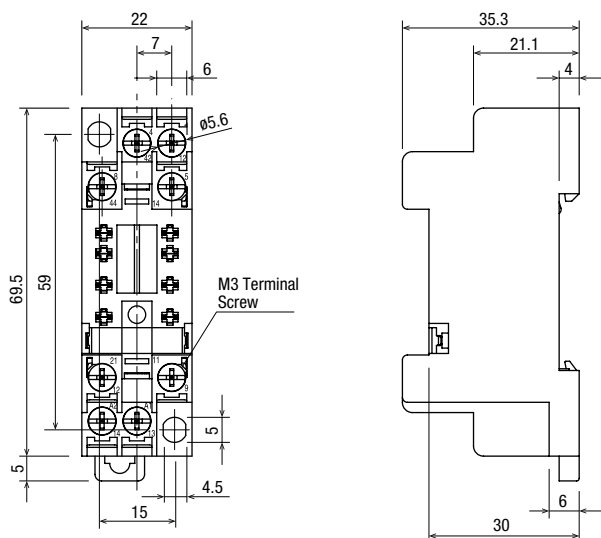
H-048

DF Series Finger-safe Sockets

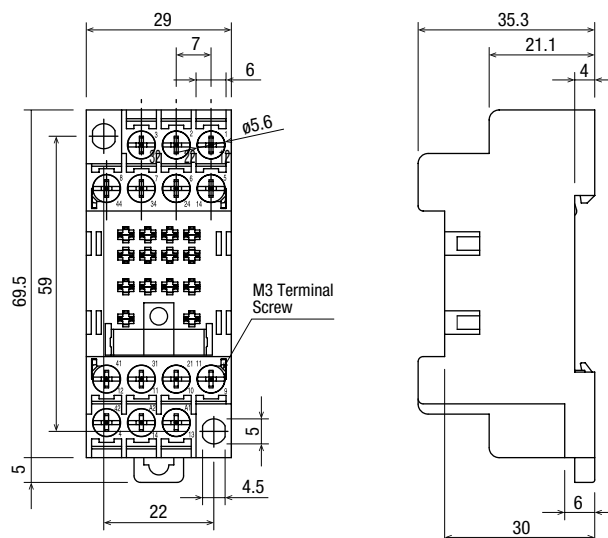
Dimensions

Sockets

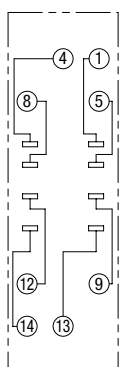
SM2S-05DF



SY4S-05DF

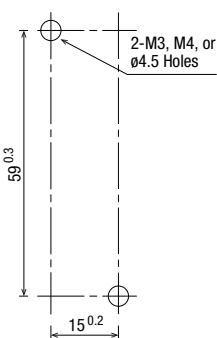


Terminal Arrangement

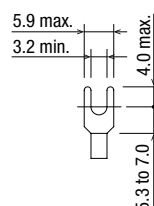


Top View

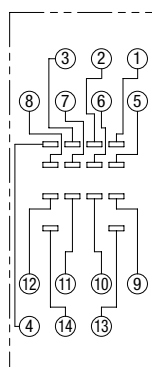
Mounting Hole Layout



Applicable Crimping Terminal

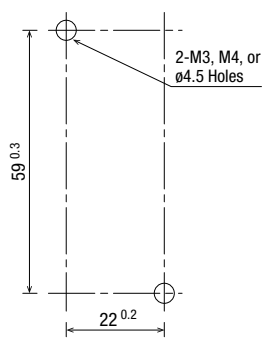


Terminal Arrangement

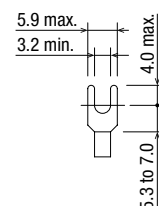


Top View

Mounting Hole Layout

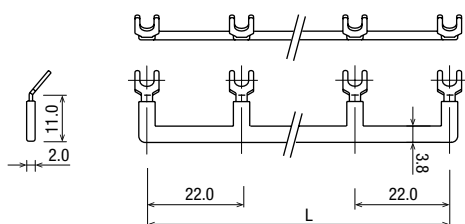


Applicable Crimping Terminal

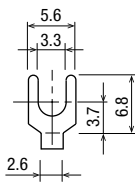


Insulated Fork Jumpers

For SM2S-05DF

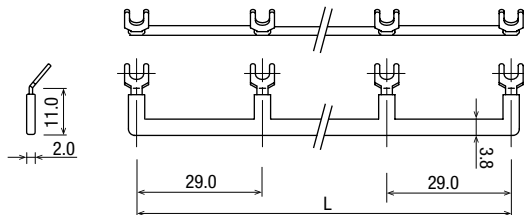


Terminal Style

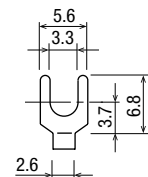


Part No.	L (mm)	No. of Sockets
SM9Z-JF2	22	2
SM9Z-JF5	88	5
SM9Z-JF8	154	8

For SY4S-05DF



Terminal Style



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

APEM
Switches & Pilot Lights
Control Boxes
Emergency Stop Switches
Enabling Switches
Safety Products
Explosion Proof
Terminal Blocks
Relays & Sockets
Circuit Protectors
Power Supplies
LED Illumination
Controllers
Operator Interfaces
Sensors
AUTO-ID

Relays
Sockets
DIN Rail Products
SJ
DF
SU
S

⚠ Safety Precautions

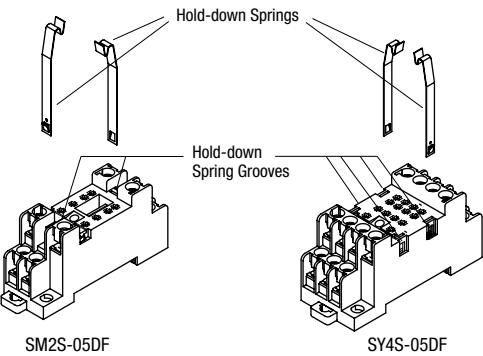
- Turn off power to the socket before starting installation, removal, wiring, maintenance, and inspection of the relays. Failure to turn power off may cause electrical shock or fire hazard.
- Do not touch the terminals while power is applied, otherwise electrical shock or fire hazard may result.
- Use 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.

Instructions

Hold-down Springs

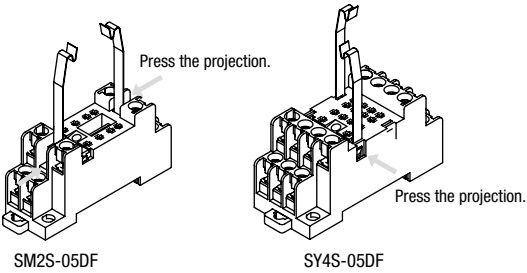
Installation

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.

