THERMOSTATS & CONTROLLERS

LOW & HIGH TEMPERATURE LIMIT CONTROLS





The **Johnson Controls A70 Series** heavy-duty temperature-limit controls incorporate a vapor charged sensing element. **A70G, A70H**, and **A70K** have a four-wire, two-circuit contact block that contains two isolated sets of contacts. The contacts are designed to transfer at set point so that when the main contact opens, the auxiliary contact closes simultaneously. Typical applications include shutdown of a ventilation system and BAS alarm indication upon low or high temperature.

FEATURES

- · Automatic or manual reset models
- · Long-life, snap-acting contacts
- Easy set point adjust
- One-year warranty



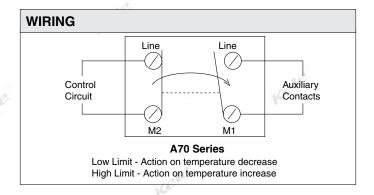


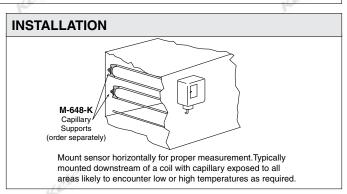


70°

SPECIFICATIONS															
SWITCH TEMP MAX							ELECTRICAL RATING								
MODEL	ACTION (Main contacts)	DANCE	RESET	BULB/	BULB	RANGE	MOTOR	L	_INE-M	2 (Main	i)	LIN	1E-M1 ((Auxilia	ry)
	(Main contacts) LINE-M2	°F (°C)	°F (°C)	CAPILLARY	°F (°C)	ADJUSTER	ADJUSTED RATINGS	120	208	240	277	120	208	240	277
A70GA-1* Low Limit	Open Low	15 to 55* (-10 to 13)	Auto 5 (2.8)	20' of 1/8" (6m of 0.32 cm) OD tubing	400 (260)	Screwdriver Slot	AC Full Load Amp	16.0	9.2	8.0	1	6.0	3.3	3.0	-
A70HA-1* Low Limit	Open Low	15 to 55* (-10 to 13)	Manual Reset	20' of 1/8" (6m of 0.32 cm) OD tubing	400 (260)	Screwdriver Slot	AC Non- Inductive Amp	16.0	9.2	8.0	7.2	6.0	6.0	6.0	6.0
A70HA-2 Low Limit	Open Low	35 to 80 (1.7 to 27)	Manual Reset	3/8" x 3" (0.95 x 7.6 cm) 6' (1.9m)cap	250 (121)	Screwdriver Slot	Pilot Duty					24-600 V 20-300 V			
A70KA-1 High Limit	Open High	100 to 170 (38 to 77)	Manual Reset	3/8" x 10" (0.95 x 25.4 cm) 6' (1.9m) cap	240 (116)	Screwdriver Slot	Approvals			UL	Listed	File #SA	\516		9

*The low cut-out stop is set and sealed at 35°F (1.6°C). The control responds to the lowest temperature along any 1' (30.5 cm) section of the 20' (6m) element.





ORDERING INFORMATION

MODELDESCRIPTIONA70GA-1Low-limit temperature control, automatic reset, 20' (6m) elementA70HA-1Low-limit temperature control, manual reset, 20' (6m) elementA70HA-2Low-limit temperature control, manual reset, 3" (7.6 cm) element, 6' (1.9m) capillaryA70KA-1High-limit temperature control, manual reset, 10" (25.4 cm) element, 6' (1.9m) capillary

CC-1G-K Plastic capillary and sensor holder mounting clip
ES1051 Freeze spray, 8 fl oz
M-648-K Copper-clad capillary mounting clip

MacurcoTM Building & Home Solutions

Whether you are looking for gas detection for a security system, building automation or HVAC system, for personal safety or for monitoring specific gases in potentially hazardous environments, Macurco has a gas detector to meet your needs.



Macurco Commercial Calibration Guide



Gas Sold Separately

The Macurco 6 & 12 Series detection family requires routine testing and calibration. Each detector has a corresponding testing/calibration kit to test and calibrate the detectors in the field. Sensors may drift over time, so it is recommended to have a maintenance plan to ensure detectors responding to gas appropriately. A gas calibration is the process of exposing a sensor to a target gas at a specific concentration and then adjusting the gas detector to read that gas concentration properly. Macurco recommends testing and calibration at a least once per year at a minimum but depending on the application and risk potential of the application a greater frequency might be needed. Check with local authorities for any specific local regulations.

Calibration Video Sensor Replacement Video

Calibration Kit	Includes	Gas Models Sold Separately	Used With	Replaced
Macurco Cal-Kit 1	Calibration Case, Tygon Tubing (2'), Cal Hood Pack, 0.2LPM Regulator (F)	CO-50PPM, CO-200PPM, CANN10H, CANN20H, CANN10M, CANN20M, CANN10P, CANN20P, O2 Gas 17%, O2 ZERO Air 20.9%	CM-6, CM-12, GD-6, GD-12, OX-6, OX-12	CM-FCK, GDH-FCK, GDM-FCK, GDP-FCK, OX-FTK, OX-FCK
Macurco Cal-Kit 2	Calibration Case, Tygon Tubing (2'), Cal Hood Pack, 0.2LPM Regulator (M)	CO-200PPM-AL, NO2-5PPM-AL, H2S Gas 25PPM	CX-6, CX-12, CM-6, CM-12, TX-ND-6, TX-ND-12, TX-6-HS, TX-12-HS	CX-FCK, ND1-FCK, ND-FCK, HS-FCK
Macurco Cal-Kit 3	Calibration Case, Nafion Tubing (2'), CX/TX-CH Cal Hood, 0.2LPM Regulator (F)	RD Gas 1000PPM, RD Gas 1200PPM	RD-6, RD-12	RD-FTK, RD-FCK
Macurco Cal-Kit 4	Calibration Case, Tygon Tubing (2'), CD-CH Cal Hood, 0.2LPM Regulator (F)	CO2 400PPM, CO2 5000PPM, CO2 5% VOL	CD-6G, CD-6B, CD-6H, CD-12H, CD-6MC, CD-12MC	CD-FTK, CD-FCK, CD6B-FCK
Macurco Cal-Kit 5	Calibration Case, Tygon Tubing (2'), CX/TX-CH Cal Hood, 0.5LPM Regulator (M)	AM Gas 25PPM	TX-6-AM, TX-12-AM	AM-FCK

^{*}Must use NIST traceable gas for calibrations

Macurco Gas Detection Phone: 1-877-367-7891 Website: www.macurco.com Email: info@macurco.com



Functional Devices, Inc. 101 Commerce Drive, Sharpsville, IN 46068

Email: sales@functionaldevices.com | Website: www.functionaldevices.com Toll Free: (800) 888-5538 Office: (765) 883-5538 | Fax: (765) 883-7505

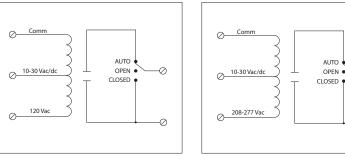
15 AMP PILOT CONTROL TRACK MOUNT RELAYS

RIBMU1S

Pilot Relay, 15 Amp SPST-N/O + Override, 10-30 Vac/dc/120 Vac Coil, 4.00" Track Mount

RIBMH1S

Pilot Relay, 15 Amp SPST-N/O + Override, 10-30 Vac/dc/208-277 Vac Coil, 4.00" Track Mount













SPECIFICATIONS

Relays & Contact Type: One (1) SPST Continuous Duty Coil Expected Relay Life: 10 million cycles minimum mechanical

Operating Temperature: -30 to 140° F

Humidity Range: 5 to 95% (noncondensing)

Operate Time: 20ms

Relay Status: LED On = Activated

Dimensions: 1.28"H x 4.00"W x 1.25"D1/1.75"D2

Housing Detail: See **Housing H** in housing guide for dimensions

Origin: Made of US and non-US parts

Track Mount: 4.000"

MT4 Mounting Track Sold Separately

Approvals: UL Listed, UL916, C-UL, CE, RoHS

UL864, California State Fire Marshal

Gold Flash: Yes Override Switch: Yes

Contact Ratings:

15 Amp Resistive @ 150 Vac 10 Amp Resistive @ 277 Vac 480 VA Pilot Duty @ 277 Vac 480 VA Ballast @ 277 Vac Not rated for Electronic Ballast 600 Watt Tungsten @ 120 Vac (N/O) 240 Watt Tungsten @ 120 Vac (N/C) 1/3 HP @ 120-240 Vac (N/O) 1/6 HP @ 120-240 Vac (N/C) 1/4 HP @ 277 Vac (N/O) 1/8 HP @ 277 Vac (N/C)

Notes:

 Order Normally Closed by adding "-NC" to end of model number

Coil Current:

33 mA @ 10 Vac 13 mA @ 10 Vdc 15 mA @ 12 Vdc 35 mA @ 12 Vac 18 mA @ 24 Vdc 46 mA @ 24 Vac 55 mA @ 30 Vac 20 mA @ 30 Vdc

28 mA @ 120 Vac (RIBMU1S) 39 mA @ 208-277 Vac (RIBMH1S)

Coil Voltage Input:

10-30 Vac/dc; 120 Vac; 50-60 Hz (RIBMU1S) 10-30 Vac/dc; 208-277 Vac; 50-60 Hz (RIBMH1S)

Drop Out = 2.1 Vac / 2.8 VdcPull $\ln = 9 \, \text{Vac} / 10 \, \text{Vdc}$



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for more information on this product family visit

www.idec.com/socket

Additional Web Resources

- New and updated product information
- Downloadable software demos & upgrades
- Part configuration tool & cross reference
- Online stock check & ordering
- IDEC field sales & distributor search
- Online literature request
- Downloadable manuals & CAD drawings
- Manufacturer's suggested retail price list
- Product training schedule & locations
- Advertising & trade show schedules
- Press releases & FAQs





Relay and Timer Socket Selection Guide

Relay and Timer Socket							
Mounting	Series	Page	Part No.	No. of Poles	Receptacle	Terminal	Compatible IDEC Relay and Timer
DIN Rail Snap/Surface-Mount	SU	F-6	SU2S-11L	2	8-Blade	Spring Clamp	RU2, RM2
****	30	Γ-0	SU4S-11L	4	14-Blade	Terminals	RU4, RU42, RY4, RY42
			SR2P-05 SR2P-05C SR2P-06	2	8-Pin		RR2P, GT5P, RTE-P1, GT3 (8-pin)
	SR	F-11	SR3P-05 SR3P-05C SR3P-06	3	11-Pin	M3.5 Screw	RR3PA, RR2KP, RTE-P2 GT3 (11-pin)
-			SR3B-05	3	11-Blade		RR1BA, RR2BA, RR3B, RTE-B
The same			SH1B-05 SH1B-05C	1	5-Blade	M3.5 Screw Coil Terminal: M3	RH1B
CELE	011	F 44	SH2B-05 SH2B-05C	2	8-Blade		RH2B
Alle .	SH	F-14	SH3B-05 SH3B-05C	3	11-Blade	M3.5 Screw	RH3B, RH2LB
			SH4B-05 SH4B-05C	4	14-Blade		RH4B
444 B			SY2S-05 SY2S-05C	2	8-Blade		RY2S, RY22S
	SY	F-18	SY4S-05 SY4S-05C	4	14-Blade	M3 Screw	RU4S, RU42S, RY4S, RY42S, RY2KS, RM2S, GT5Y
ALAK A	SM	F-20	SM2S-05 SM2S-05C	2	8-Blade	M3 Screw	RU2S, RM2S
B	SJ	F-9	SJ1S-05B SJ1S-07L	1	5-Blade	M3 Screw	RJ1S
			SJ2S-05B SJ2S-07L	2	8-Blade		RJ2S
	SQ	F-10	SQ1V-07B	1	5-Blade		RQ1V-CM
		1-10	SQ2V-07B	2	8-Blade		RQ2V-CN RQ1V-CH
Through Panel Mount			SR2P-51	2	8-Pin		RR2P, GT5P, RTE-P1, GT3 (8-pin)
	SR	F-21	SR3P-51	3	11-Pin		RR3PA, RR2KP, RTE-P2, GT3 (11-pin)
			SR3B-51	3	11-Blade		RR1BA, RR2BA, RR3B
1001			SH1B-51	1	5-Blade		RH1B
To alogo			SH2B-51	2	8-Blade	Solder	RH2B
TO THE PARTY OF TH	SH	F-22	SH3B-51	3	11-Blade	Soluei	RH3B, RH2LB
			SH4B-51	4	14-Blade		RH4B
10 mm				2			
Con Con	SY	F-24	SY2S-51	Z	8-Blade		RY2S, RY22S RY4S, RY42S, RU4S, RU42S, RY2KS, RM2S,
11,50			SY4S-51	4	14-Blade		GT5Y
PCB Mount			SH1B-62	1	5-Blade		RH1B
	SH	F3-25	SH2B-62	2	8-Blade		RH2B
100	311	1 3-23	SH3B-62	3	11-Blade		RH3B, RH2LB
			SH4B-62	4	14-Blade		RH4B
			SY2S-61	2	8-Blade	PC Board	RY2S, RY22S
	SY	F3-26	SY4S-61	4	14-Blade		RY4S, RY42S, RU4S, RU42S, RY2KS, RM2S, GT5Y
			SY4S-62	4	14-Blade		RY4S, RY42S, RU4S, RU42S, RY2KS, RM2S, GT5Y
For Panel Mounted Timers							
	CD	E 20	SR6P-M08G		8-pin	M2 E Cara	GE1A; RTE-P1; GT3 (8-pin);
10000	SR	F-28	SR6P-M11G	2	11-pin	M3.5 Screw	RTE-P2; GT3 (11-pin)
For relay mounting accessories		F 20	l .		ı		



 $For \ relay \ mounting \ accessories, \ see \ page \ F-29.$



Specifications

SU, SR, SH, SM, SY

	Rated Insulation Voltage	300V; except SH1B, SU and SY4S-62: 250V
ons	Rated Current	SU2/SR/SH/SM: 10A, SY: 7A, SU4: 6A with RU4, SU4: 10A with RU2 (SH1B: 7A)
cati	Insulation Resistance	100M Ω minimum
Specifications	Dielectric Strength	2,000V AC, 1 minute
Spe	Material Grade	UL94V-0
	Terminal Torque	3.5mm Screws, 9-11.5 in•lbs 3mm screws, 5.5-9 in•lbs



1. * Applicable to DIN rail sockets only.









File No. BL950813332307

SJ, SQ

Specifications	SJ Series	SQ Series
Rated Current	SJ1S: 12A Max; SJ2S: 8A Max	SQ1V: 12A Max; SQ2V: 10A Max
Rated Voltage	250V	300V
Applicable Wire	2x #14 (2.5mm ²)	2x #14 (2.5mm ²)
Applicable Crimping Terminal	2mm ² x 2	1.5mm ² x 2
Terminal Torque	0.6 to 1.0Nm	1.0Nm Max
Screw Size	M3 Slotted Phillip Captive Screw	M3 Slotted Phillip Captive Screw
Dielectric Strength (Coil/Contact)	4,000VAC	3,000VAC
Insulation Resistance	≥100 MΩ Minimum	≥100 MΩ Minimum
Operating Temperature	-40 to 70°C (no freezing)	-25 to +85°C
Operating Humidity	5~85% RH (no condensation)	45~85% RH



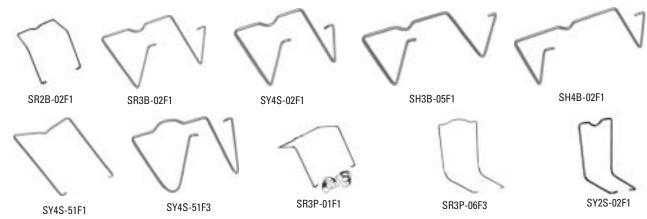


Hold-Down Springs and Clips Selection Guide

DIN Rail Snap/Surface-Mount Sockets

Socket Part No.	Applicable Relays, Timer	Hold-Down Pullover Spring	Hold-Down Clip (side latch)	Hold-Down Clip (top latch)
SU2S-11L	RM2S, RU2, GT5Y-2	SY4S-51F1	SFA-202	SFA-101
SU4S-11L	RY4S, RY42S, RU4, RU42, GT5Y, RY2KS, RM2S	SY4S-51F1	SFA-202	SFA-101
SR2P-05	RR2P	SR2B-02F1	SFA-203	_
SR2P-05C	RTE-P1, GT3, GT5P	_	SFA-203	_
SR2P-06	RR2P	SR2B-02F1	SFA-202	_
3N2F-00	GT3 (8-pin), RTE-P1, GT5P	_	SFA-202	_
	RR3PA	SR3B-02F1	SFA-203	_
SR3P-05 SR3P-05C	RR2KP	SR3P-06F3	SFA-203	_
	RTE-P2, GT3 (11-pin)	_	SFA-203	_
	RR3PA	SR3B-02F1	SFA-202	_
SR3P-06	RR2KP	SR3P-06F3	SFA-202	_
	RTE-P2, GT3 (11-pin)	_	SFA-202	_
SR3B-05	RR1BA, RR2BA, RR3B, RTE-B	SR3B-02F1	SFA-202	_
SH1B-05 SH1B-05C	RH1B	SY2S-02F1	SFA-202	SFA-101
SH2B-05 SH2B-05C	RH2B	SY4S-02F1	SFA-202	SFA-101
SH3B-05 SH3B-05C	RH3B, RH2LB	SH3B-05F1	SFA-202	SFA-101
SH4B-05 SH4B-05C	RH4B	SH4B-02F1	SFA-202	SFA-101
SY2S-05 SY2S-05C	RY2S, RY22S	SY2S-02F1	SFA-202	SFA-101
SY4S-05 SY4S-05C	RY4S, RY42S, RU4, RU42, RM2S	SY4S-51F1	SFA-202	SFA-101
3143-UDU	RY2KS, GT5Y	(SY4S-51F3)	SFA-202	
SM2S	RM2S, RU2	SY4S-51F1	SFA-202	SFA-101
SJ1S SJ2S	RQ1S RJ2S	SJ9Z-C		
SQ1S SQ2S	RQ1V RQ2V	SQ9Z-C		

- $1.\ Hold-down\ springs\ work\ in\ conjunction\ with\ hold-down\ spring\ anchors\ included\ with\ DIN\ rail\ sockets.$
- 2. When mounting relays with a check button onto panel mount or PC board mount sockets, use the hold-down spring shown in parenthesis. Hold-down springs for relays with check buttons are not available for SR2P-51.
- 3. For close mounting of panel mount or PC mount sockets, use hold-down clips rather than hold-down springs.
- 4. SFA-101, SFA-202 and SFA-302 come in pairs.



Panel and PC Board Mount Sockets

Socket Part No.	Applicable Relays, Timer	Hold-Down Pullover Spring	Hold-Down Clip (side latch)	Hold-Down Clip (top latch)
SR2P-51	RR2P	SR3P-01F1	_	_
3NZP-91	GT3 (8-pin), RTE-P1	_	SFA-402	_
	RR3PA	SR3P-01F1	_	_
SR3P-51	RR2KP	SR3P-51F3	_	_
	GT3 (11-pin), RTE-P2	_	SFA-402	_
SR3B-51	RR1BA, RR2BA, RR3B, RTE-B	SR3B-02F1	_	_
SH1B-51 SH1B-62	RH1B	SY4S-51F1	_	SFA-301 SFA-302
SH2B-51	RH2B	SY4S-51F1 (SY4S-02F1)	_	SFA-301 SFA-302
SH2B-62	RH2B	SY4S-51F1 (SY4S-02F1)	_	_
SH3B-51 SH3B-62	RH3B, RH2LB	SY4S-51F1 (SY4S-02F1)	_	SFA-301 SFA-302
SH4B-51 SH4B-62	RH4B	SY4S-51F1 (SH4B-02F1)	_	SFA-301 SFA-302
SY2S-51 SY2S-61	RY2S, RY22S	SY4S-51F1	_	SFA-301 SFA-302
SY4S-51	RY4S, RY42S	SY4S-51F1 (SY4S-02F1)	_	SFA-301 SFA-302
SY4S-61	RY2KS	SY4S-51F1 (SY4S-02F3)	SFA-302	_
	GT5Y	_	SFA-302	_
SY4S-62 *	RY4S, RY42S, RM2S	SY4S-51F1 (SY4S-02F1)	_	_
J143-02	RY2KS	SY4S-51F1 (SY4S-02F3)	_	_

^{*} Does not accept hold down clips





SU Series: DIN Rail Snap-Mount Sockets



SU2S-11L

Style 8-blade DIN-mount/surface mount Terminal Spring clamp terminals Wire Size 24-16 AWG Electrical Rating 10A Compatible Relay RU2, RM2 Compatible Timer GT5Y-2 Hold-Down Clip SFA-101 (top latch), SFA-202 (side latch)	3020-11L	
Wire Size 24-16 AWG Electrical Rating 10A Compatible Relay RU2, RM2 Compatible Timer GT5Y-2	Style	8-blade DIN-mount/surface mount
Electrical Rating 10A Compatible Relay RU2, RM2 Compatible Timer GT5Y-2	Terminal	Spring clamp terminals
Compatible Relay RU2, RM2 Compatible Timer GT5Y-2	Wire Size	24-16 AWG
Compatible Timer GT5Y-2	Electrical Rating	10A
<u> </u>	Compatible Relay	RU2, RM2
Hold-Down Clip SFA-101 (top latch), SFA-202 (side latch)	Compatible Timer	GT5Y-2
	Hold-Down Clip	SFA-101 (top latch), SFA-202 (side latch)

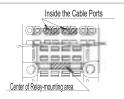


SU4S-11L

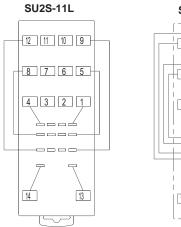
Style	14-blade DIN-mount/surface mount
Terminal	Spring clamp terminals
Wire Size	24-16 AWG
Electrical Rating	6A (using RU4), 10A (using RU2)
Compatible Relay	RY4S, RY42S, RU4, RU42S, RY2KS, RM2S
Compatible Timer	GT5Y
Hold-Down Clip	SFA-101 (top latch), SFA-202 (side latch)



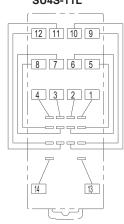
- On the SU2S, wires or ferrules cannot be connected to terminals 2, 3, 6, 7, 10 or 11 because neither springs nor conductive brackets are installed in these terminals.
- 2. For socket mounting accessories, see page F-29.



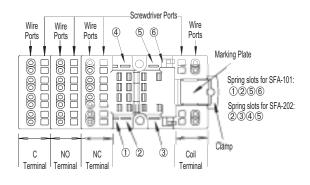
Terminal Arrangement (top view)



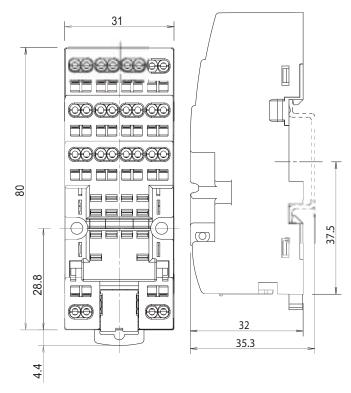
SU4S-11L



Parts



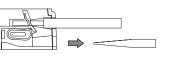
Dimensions



Panel Cutout for Surface Mounting







SU Series: General Instructions

Applicable Wires

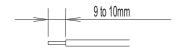
Wire	Size	
Stranded wire	0.2 to 1.25 mm ² or AWG24 to 16	
Solid wire	0.2 to 1.5 mm ² or AWG24 to 16	
Wire insulation diameter	ø3.15mm maximum	



1. Strip the wire insulation 9 to 10mm from the end.

IDEC Sockets

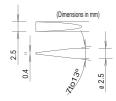
- 2. In applications using ferrules for stranded wires, choose the ferrule listed in table below. Make sure that an insulation sheath is applied when using the ferrules. When using stranded wires without ferrules, make sure that the core wires have not been loosened.
- 3. Two cable ports are provided for each terminal.



Applicable Ferrules

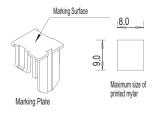
Applicable	Wire (stranded)	Туре	Manufacturer	
mm ²	AWG	турс	- Manulactulei	
0.2	24	A10.25-12BU	Phoenix Contact	
_	22	A10.34-8TQ	Phoenix Contact	
		A10.5-8WH	Phoenix Contact	
0.5	20	A10.5-10WH	T HOCHIX CONTACT	
		TE0.5	Nichifu Co. Ltd	

For wiring, use the optional screwdriver (BC1S-SD0) or the following applicable screwdriver.



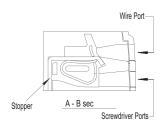
Marking Instructions

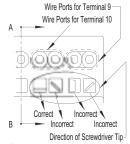
Write markings on the SU sockets using an oil-based marker, or glue printed mylar on the marking surface. The size of the printed mylar can be 8 x 9mm maximum.





Wiring Instructions





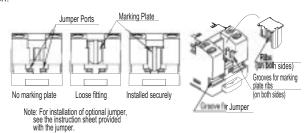
Note: Two cable ports are provided for each terminal.

- 1. Insert the optional screwdriver (BC1S-SD0) or an applicable screwdriver into the squareshaped port as shown on the right. until the screwdriver tip touches the bottom of the spring.
- 2. Push in the screwdriver until it touches the bottom of the port. The wire port is now open, and the screwdriver is held in place. The screwdriver will not come off even if you release your hand.
- 3. While the screwdriver is retained in the port, insert the wire or ferrule into the round-shaped wire port. Each wire port can accommodate one wire or ferrule. When connecting two wires to one terminal, use the adjoining port of the same terminal.
- 4. Pull out the screwdriver. The connection is now complete.

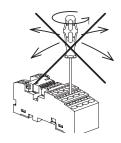
Safety Precautions

Installing the Marking Plate

Because of its removable structure, the marking plate may have fallen from the socket or become loose in delivery. Make sure that the marking plate is securely installed before starting operation. The marking plate protects the conductive portion of the socket, located under the marking plate, by preventing metal fragments or pieces of wire from dropping inside. Should any such fragments enter the socket, they may cause fire hazard, damage, or malfunc-



Inserting Screwdriver into the Wire Ports





SU Series: SU9Z-J5 Jumper Installation Instructions

SU9Z-J5 Jumper for SU2S-11L and SU4S-11L

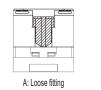
The SU9Z-J5 is used to install five sockets. When installing less than five sockets cut the jumper according to the instructions listed to the right.

The SU9Z-J5 jumper is for coil terminals only.

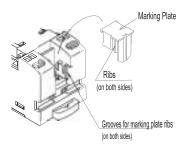
SU9Z-95 Jumper		
Rated Curr	ent	3A
Material	Conductor	Nickel-plated brass
	Sheath	ABS resin

Installation

Loosen the marking plate on the socket.

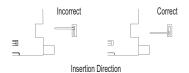


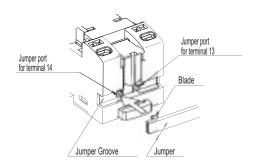




Alignment

Making sure that the SU9Z-J5 jumper is correctly aligned, insert the blades into the ports in the groove of the SU sockets.

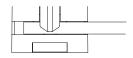




Install Jumper Securely

Press down the marking plate to secure the jumper. The jumper installation is now complete.



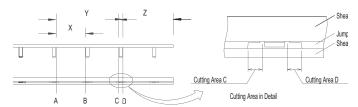


Installing Two, Three or Four SU Sockets on the SU9Z-J5 Jumper

As shown below, slide the jumper in the sheath so that the jumper aligns with the center of the sheath.



With the sheath properly installed on the jumper, cut the sheath and jumper at the points shown below, using cutting pliers. Referring to the drawing on the right, make sure that the sheath and jumper are cut within the cutting area. Dispose of unused portions according to local waste disposal requirements.



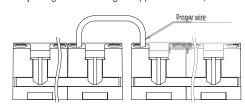
	Qty	Cutting Area	Discard
2 Sockets	2	A, C	Υ
2 Sockets	1	A, B	X
3 Sockets	1	Α, υ	Λ
4 Sockets	1	D	Z

After cutting the jumper and sheath, slide the jumper as shown below, so that the ends of the jumper ar e not exposed.



Jumper Wiring to Six or More SU Sockets

To jumper wire six or more SU sockets, connect five sockets using whole jumpers and the remaining sockets using a cut jumper. Then connect the two terminals on adjoining sockets using an applicable wire (see table below).



Wire	Size
Stranded wire	0.2 to 1.25 mm ²
Solid wire	0.2 to 1.5 mm ²
AWG	24 to 16



- 1. Use a wire with cable insulation diameter of \$\phi 3.15mm\$ maximum
- 2. Strip the cable insulation 9 to 10mm from the end.

Safety Precautions

Turn off the power to the SU9Z-J5 jumper before starting installation, removal, wiring, maintenance, or inspection of the jumper. Failure to turn power off may cause an electrical shock or fire hazard.

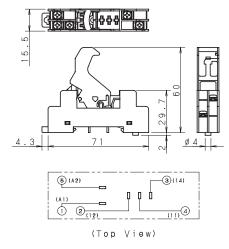
To avoid a short circuit due to incorrect wiring, confirm which terminals are connected to the jumper before beginning wiring.

SJ Series: General Information



SJ1S-05B

Style	5 -blade snap mount/surface mount
Terminal/Torque	0.6 - 1.0N•m (Maximum 1.2N•m)
Wire Size	Maximum up to 2 - #14 AWG
Electrical Rating	250V, 12A
Compatible Relay	RJ1S
Compatible Timer	N/A
Hold-Down Spring	N/A
Replacement Locking Lever	SJ9Z-C

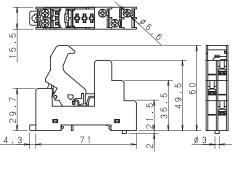


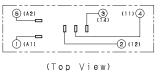
SJ1S-07L



SJ1S-07L Fingersafe

Style	5-blade, snap mount/surface mount
Terminal/Torque	0.6 - 1.0N•m (Maximum 1.2N•m)
Wire Size	Maximum up to 2 - #14 AWG
Electrical Rating	250V, 12A
Compatible Relay	RJ1S
Compatible Timer	N/A
Hold-Down Spring	N/A
Replacement Locking Lever	SJ9Z-C

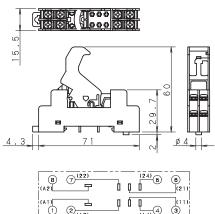


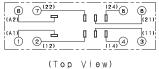




SJ2S-05B

Style	8-blade, snap mount/surface mount
Terminal/Torque	0.6 - 1.0N•m (Maximum 1.2N•m)
Wire Size	Maximum up to 2 - #14 AWG
Electrical Rating	250V, 8A
Compatible Relay	RJ2S
Compatible Timer	N/A
Hold-Down Spring	N/A
Replacement Locking Lever	SJ9Z-C



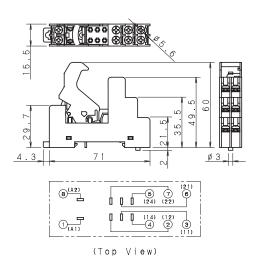






SJ2S-07L Fingersafe

Style	8-blade snap mount/surface mount
Terminal/Torque	0.6 - 1.0N•m (Maximum 1.2N•m)
Wire Size	Maximum up to 2 - #14 AWG
Electrical Rating	250V, 8A
Compatible Relay	RJ2S
Compatible Timer	N/A
Hold-Down Spring	N/A
Replacement Locking Lever	SJ9Z-C

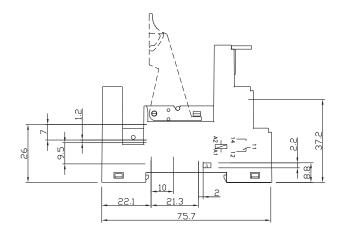


All dimensions are in mm.

SQ Series: General Information



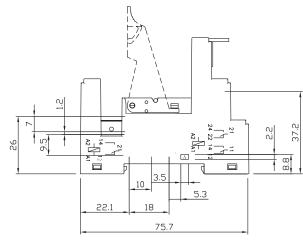
SQ1V-U/B Fingersate		
Style	5-pin, snap mount/surface mount	
Terminal/Torque	1.0N•m Maximum	
Wire Size	Maximum up to 2 - #14 AWG	
Electrical Rating	300V, 12A	
Compatible Relay	RQ1V-CM	
Replacement Locking Lever	SQ9Z-C	
Replacement Marking Plate	SQ9Z-P	
Plug-in LED/Diode (6-24VDC)	SQ9Z-LD	
Plug-in LED/RC (120/240VAC)	SQ9Z-LR	





SQ2V-07B Fingersafe

Style	8-pin, snap mount/surface mount
Terminal/Torque	1.0N•m Maximum
Wire Size	Maximum up to 2 - #14 AWG
Electrical Rating	300V, 8A
Compatible Relay	RQ2V, RQ1V-CH
Replacement Locking Lever	SQ9Z-C
Replacement Marking Plate	SQ9Z-P
Plug-in LED/Diode (6-24VDC)	SQ9Z-LD
Plug-in LED/RC (120/240VAC)	SQ9Z-LR



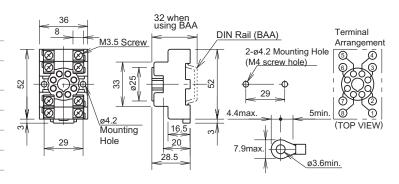
SR Series: DIN Rail Snap-Mount Sockets

SR2P Sockets



SR2P-05

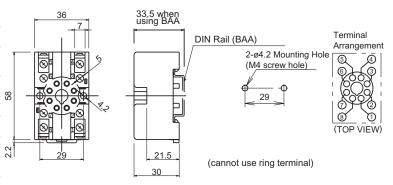
Style	8-pin octal, snap-mount/surface mount
Terminal/Torque	M3.5 screws with captive wire clamp (9 - 11.5 in•lbs)
Wire Size	Maximum up to 2–#12AWG
Electrical Rating	300V, 10A
Compatible Relay	RR2P
Compatible Timer	RTE-P1, GT3 (8-pin), GT5P, GE1A
Hold-Down Spring	SR2B-02F1 (for RR2P)
Hold-Down Clip	SFA-203 (for timers only, except GE1A)





SR2P-05C Fingersafe

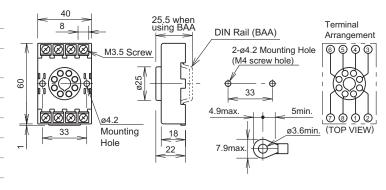
Style	8-pin octal, snap-mount/surface mount
Terminal/Torque	M3.5 screws with captive wire clamp, fingersafe (9 - 11.5 in•lbs)
Wire Size	Maximum up to 2—#12AWG
Electrical Rating	300V, 10A
Compatible Relay	RR2P
Compatible Timer	RTE-P1, GT3 (8-pin), GT5P, GE1A
Hold-Down Spring	SR2B-02F1 (for RR2P)
Hold-Down Clip	SFA-203 (for timers only, except GE1A)





SR2P-06

3NZF-00	
Style	8-pin octal, snap-mount/surface mount
Terminal/Torque	M3.5 screws with captive wire clamp (9 - 11.5 in•lbs)
Wire Size	Maximum up to 2—#12AWG
Electrical Rating	300V, 10A
Compatible Relay	RR2P
Compatible Timer	RTE-P1, GT3 (8-pin), GT5P, GE1A
Hold-Down Spring	SR2B-02F1 (for RR2P)
Hold-Down Clip	SFA-202 (for timers only, except GE1A)





- 1. For socket mounting accessories, see page F-29.
- 2. For hold-down clip/spring selections, see page F-4.

Socke

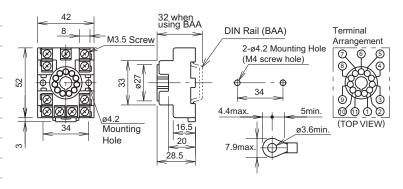


SR3P Sockets



SR3P-05

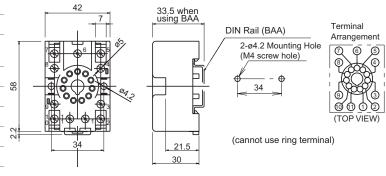
Style	11-pin octal, snap-mount/surface mount
Terminal/Torque	M3.5 screws with captive wire clamp (9 - 11.5 in•lbs)
Wire Size	Maximum up to 2—#12AWG
Electrical Rating	300V, 10A
Compatible Relay	RR3PA, RR2KP
Compatible Timer	GT3 (11-pin), RTE-P2
Hold-Down Spring	SR3B-02F1 for RR3P; SR3P-06F3 for RR2KP
Hold-Down Clip	SFA-203 (Timers)





SR3P-05C Fingersafe

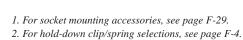
Style	11-pin octal, snap-mount/surface mount
Terminal/Torque	M3.5 screws with captive wire clamp, fingersafe (9 - 11.5 in•lbs)
Wire Size	Maximum up to 2—#12AWG
Electrical Rating	300V, 10A
Compatible Relay	RR3PA, *RR2KP (*latching relay)
Compatible Timer	GT3 (11-pin), RTE-P2
Hold-Down Spring	SR3B-02F1 for RR3PA; SR3P-06F3 for RR2KP
Hold-Down Clip	SFA-203 (Timers)

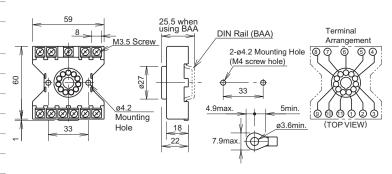




SR3P-06

Style11-pin octal, snap-mount/surface mountTerminal/TorqueM3.5 screws with captive wire clamp (9 - 11.5 in•lbs)Wire SizeMaximum up to 2-#12AWGElectrical Rating300V, 10ACompatible RelayRR3PA, *RR2KP (*latching relay)Compatible TimerGT3 (11-pin), RTE-P2Hold-Down SpringSR3B-02F1 for RR3PA; SR3P-06F3 for RR2KPHold-Down ClipSFA-202 (Timers)	Sh3P-00	
Wire Size Maximum up to 2—#12AWG Electrical Rating 300V, 10A Compatible Relay RR3PA, *RR2KP (*latching relay) Compatible Timer GT3 (11-pin), RTE-P2 Hold-Down Spring SR3B-02F1 for RR3PA; SR3P-06F3 for RR2KP	Style	11-pin octal, snap-mount/surface mount
Electrical Rating 300V, 10A Compatible Relay RR3PA, *RR2KP (*latching relay) Compatible Timer GT3 (11-pin), RTE-P2 Hold-Down Spring SR3B-02F1 for RR3PA; SR3P-06F3 for RR2KP	Terminal/Torque	
Compatible Relay RR3PA, *RR2KP (*latching relay) Compatible Timer GT3 (11-pin), RTE-P2 Hold-Down Spring SR3B-02F1 for RR3PA; SR3P-06F3 for RR2KP	Wire Size	Maximum up to 2—#12AWG
Compatible Timer GT3 (11-pin), RTE-P2 Hold-Down Spring SR3B-02F1 for RR3PA; SR3P-06F3 for RR2KP	Electrical Rating	300V, 10A
Hold-Down Spring SR3B-02F1 for RR3PA; SR3P-06F3 for RR2KP	Compatible Relay	RR3PA, *RR2KP (*latching relay)
· •	Compatible Timer	GT3 (11-pin), RTE-P2
Hold-Down Clip SFA-202 (Timers)	Hold-Down Spring	SR3B-02F1 for RR3PA; SR3P-06F3 for RR2KP
	Hold-Down Clip	SFA-202 (Timers)





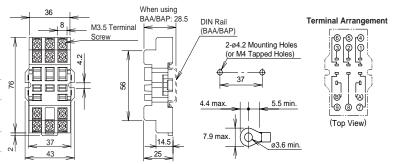


SR3B Sockets



SR3B-05

Style	11-blade, snap-mount/surface mount
Terminal/Torque	M3.5 screws with captive wire clamp (9 - 11.5 in•lbs)
Wire Size	Maximum up to 2—#12AWG
Electrical Rating	300V, 15A (10A)* (*denotes CSA rating)
Compatible Relay	RR1BA, RR2BA, RR3B
Compatible Timer	RTE-B
Hold-Down Spring	SR3B-02F1 (relays)
Hold-Down Clip	SFA-202 (relays and timers)





- 1. For socket mounting accessories, see page F-29.
- 2. For hold-down clip/spring selections, see page F-4.

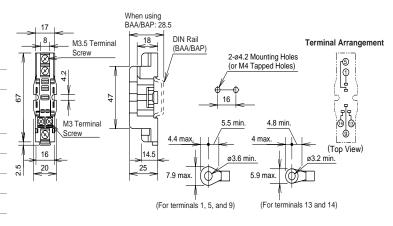


SH Series: DIN Rail Snap-Mount Sockets

SH1B Sockets



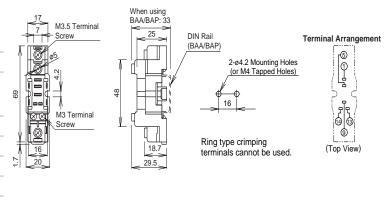
SH1B-05	
Style	5-blade, snap-mount/surface mount
Terminal/Torque	(Coil) M3 screws/(5.5 - 9 in • lbs) (contact) M3.5 screws (9 - 11.5 in • lbs) with captive wire clamp
Wire Size	Maximum up to 2—#12AWG
Electrical Rating	250V, 10A
Compatible Relay	RH1B
Hold-Down Spring	SY2S-02F1
Hold-Down Clip	SFA-101 (top notch), SFA-202 (side notch)





SH1B-05C Fingersafe

Style	5-blade, snap-mount/surface mount
Terminal/Torque	(Coil) M3 screws/(5.5 - 9 in • lbs) (contact) M3.5 screws with captive wire clamp, fingersafe (9 - 11.5 in • lbs)
Wire Size	Maximum up to 2—#12AWG
Electrical Rating	250V, 10A
Compatible Relay	RH1B
Hold-Down Spring	SY2S-02F1
Hold-Down Clip	SFA-101 (top notch), SFA-202 (side notch)





For socket mounting accessories, see page F-29.
 For hold-down clip/spring selections, see page F-4.

2-ø4.2 Mounting Holes (or M4 Tapped Holes)

ø3.6 min.

Terminal Arrangement

(Top View)

IDEC Sockets

SH2B Sockets



SH2B-05	
Style	8-blade, snap-mount/surface mount
Terminal/Torque	M3.5 screws with captive wire clamp (9 - 11.5 in • lbs)
Wire Size	Maximum up to 2—#12AWG
Electrical Rating	300V, 10A
Compatible Relay	RH2B
Hold-Down Spring	SY4S-02F1



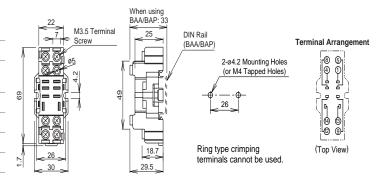


SH2B-05C	Fingersafe
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Style	8-blade, snap-mount/surface mount
Terminal/Torque	M3.5 screws with captive wire clamp, fingersafe (9 - 11.5 in • lbs)
Wire Size	Maximum up to 2—#12AWG
Electrical Rating	300V, 10A
Compatible Relay	RH2B
Hold-Down Spring	SY4S-02F1
Hold-Down Clip	SFA-101 (top notch), SFA-202 (side notch)



- 1. For socket mounting accessories, see page F-29.
- 2. For hold-down clip/spring selections, see page F-4.



When using BAA/BAP: 28.5

18

14.5

M3.5 Terminal

DIN Rail (BAA/BAP)

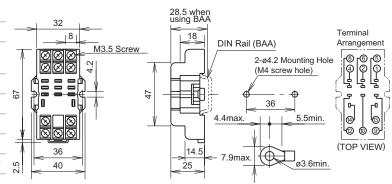
7.9 max.

SH3B Sockets



SH3B-05

Style	11-blade, snap-mount/surface mount
Terminal/Torque	M3.5 screws with captive wire clamp (9 - 11.5 in • lbs)
Wire Size	Maximum up to 2—#12AWG
Electrical Rating	300V, 10A
Compatible Relay	RH3B, RH2LB
Hold-Down Spring	SH3B-05F1
Hold-Down Clip	SFA-101 (top notch), SFA-202 (side notch)

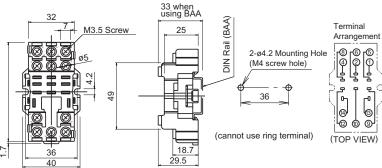






SH3B-05C Fingersafe

•	11-blade, snap-mount/surface mount
Terminal/Torque	M3.5 screws with captive wire clamp, fingersafe (9 - 11.5 in • lbs)
Wire Size	Maximum up to 2—#12AWG
Electrical Rating	300V, 10A
Compatible Relay	RH3B, RH2LB
Hold-Down Spring	SH3B-05F1
Hold-Down Clip	SFA-101 (top notch), SFA-202 (side notch)



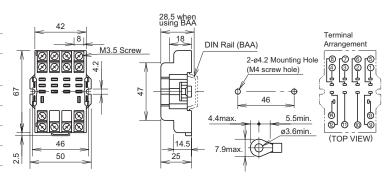


- 1. For socket mounting accessories, see page F-29.
- $2.\ For\ hold-down\ clip/spring\ selections,\ see\ page\ F-4.$

SH4B Sockets



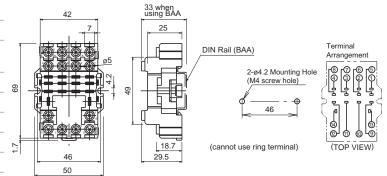
SH4B-05	
Style	14-blade, snap-mount/surface mount
Terminal/Torque	M3.5 screws with captive wire clamp (9 - 11.5 in • lbs)
Wire Size	Maximum up to 2—#12AWG
Electrical Rating	300V, 10A
Compatible Relay	RH4B
Hold-Down Spring	SH4B-02F1
Hold-Down Clip	SFA-101 (top notch), SFA-202 (side notch)





SH4B-05C	Fingersafe
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Style	14-blade, snap-mount/surface mount
Terminal/Torque	M3.5 screws with captive wire clamp, fingersafe (9 - 11.5 in • lbs)
Wire Size	Maximum up to 2—#12AWG
Electrical Rating	300V, 10A
Compatible Relay	RH4B
Hold-Down Spring	SH4B-02F1
Hold-Down Clip	SFA-101 (top notch), SFA-202 (side notch)





- 1. For socket mounting accessories, see page F-29.
- 2. For hold-down clip/spring selections, see page F-4.



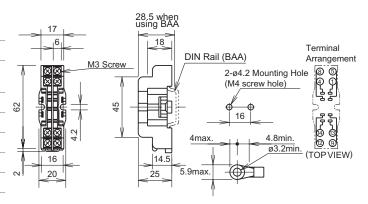


SY Series: DIN Rail Snap-Mount Sockets

SY2S Sockets



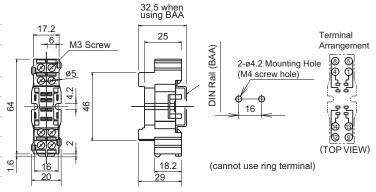
Style 8-blade, snap-mount/surface mount Terminal/Torque M3 screws with captive wire clamp (5.5 - 9 in • lbs) Wire Size Maximum up to 2−#14AWG Electrical Rating 300V, 7A Compatible Relay RY2S, RY22S Hold-Down Spring SY2S-02F1	SY2S-05	
Wire Size (5.5 - 9 in • lbs) Wire Size Maximum up to 2—#14AWG Electrical Rating 300V, 7A Compatible Relay RY2S, RY22S	Style	8-blade, snap-mount/surface mount
Electrical Rating 300V, 7A Compatible Relay RY2S, RY22S	Terminal/Torque	
Compatible Relay RY2S, RY22S	Wire Size	Maximum up to 2—#14AWG
<u> </u>	Electrical Rating	300V, 7A
Hold-Down Spring SY2S-02F1	Compatible Relay	RY2S, RY22S
	Hold-Down Spring	SY2S-02F1
Hold-Down Clip SFA-101 (top notch), SFA-202 (side notch)	Hold-Down Clip	SFA-101 (top notch), SFA-202 (side notch)





SY2S-05C Fingersafe

Style	8-blade, snap-mount/surface mount
Terminal/Torque	M3 screws with captive wire clamp, fingersafe (5.5 - 9 in • lbs)
Wire Size	Maximum up to 2—#14AWG
Electrical Rating	300V, 7A
Compatible Relay	RY2S, RY22S
Hold-Down Spring	SY2S-02F1
Hold-Down Clip	SFA-101 (top notch), SFA-202 (side notch)





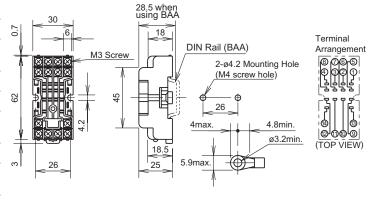
- 1. For socket mounting accessories, see page F-29.
- 2. For hold-down clip/spring selections, see page F-4.



SY4S Sockets



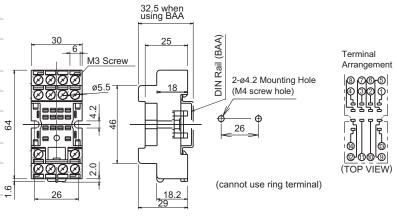
SY4S-05	
Style	14-blade, snap-mount/surface mount
Terminal/Torque	M3 screw with captive wire clamp (5.5 - 9 in • lbs)
Wire Size	Maximum up to 2—#14AWG
Electrical Rating	300V, 7A
Compatible Relay	RY4S, RY42S, RU4S, RU42S, RM2S, *RY2KS, (*latching relay)
Compatible Timer	GT5Y
Hold-Down Spring	SY4S-51F1 for all relays; SY4S-51F3 for RY2KS only
Hold-Down Clip	SFA-101 (top notch), SFA-202 (side notch) for all relays and timers





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14-blade, snap-mount/surface mount	_
M3 screw with captive wire clamp, fingersafe (5.5 - 9 in • lbs)	_
Maximum up to 2—#14AWG	_
300V, 7A	_
RY4S, RY42S, RM2S, RU4S, RU42S, *RY2KS, (*latching relay)	64
GT5Y	_
SY4S-51F1 for all relays; SY4S-51F3 for RY2KS only	- د
SFA-101 (top notch), SFA-202 (side notch) for GT5Y timer and relays	_
	M3 screw with captive wire clamp, fingersafe (5.5 - 9 in • lbs) Maximum up to 2−#14AWG 300V, 7A RY4S, RY42S, RM2S, RU4S, RU42S, *RY2KS, (*latching relay) GT5Y SY4S-51F1 for all relays; SY4S-51F3 for RY2KS only SFA-101 (top notch), SFA-202 (side







- 1. For socket mounting accessories, see page F-29.
- 2. For hold-down clip/spring selections, see page F-4.

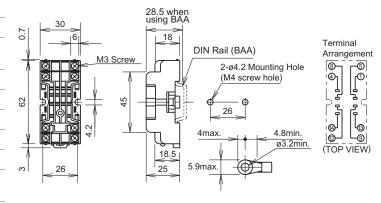
Sockets IDEC

SM2S Sockets



SM2S-05

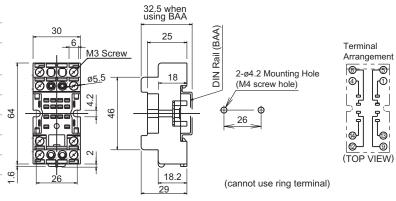
Style	8-blade, snap-mount/surface mount
Terminal/Torque	M3 screw with captive wire clamp (5.5 - 9 in • lbs)
Wire Size	Maximum up to 2—#14AWG
Electrical Rating	300V, 10A
Compatible Relay	RU2S, RM2S
Compatible Timer	_
Hold-Down Spring	SY4S-51F1
Hold-Down Clip	SFA-101 (top notch), SFA-202 (side notch)





SM2S-05C Fingersafe

Style	8-blade, snap-mount/surface mount
Terminal/Torque	M3 screw with captive wire clamp, fingersafe (5.5 - 9 in • lbs)
Wire Size	Maximum up to 2—#14AWG
Electrical Rating	300V, 10A
Compatible Relay	RU2S, RM2S
Compatible Timer	_
Hold-Down Spring	SY4S-51F1
Hold-Down Clip	SFA-101 (top notch), SFA-202 (side notch)





- ${\it 1. For socket mounting accessories, see page F-29.}$
- 2. For hold-down clip/spring selections, see page F-4.

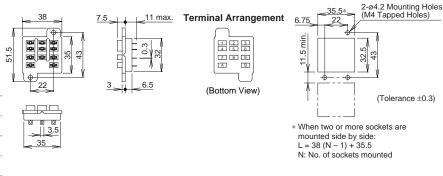


SR Series: Panel Mount Sockets



SR3B-51

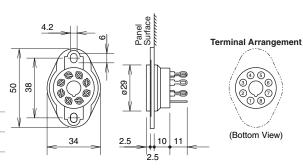
Style	11-blade, panel mount
Terminal	Solder
Electrical Rating	300V, 10A
Compatible Relay	RR1BA, RR2BA, RR3B
Compatible Timer	RTE-B
Hold-Down Spring	SR3B-02F1 (for relays only)

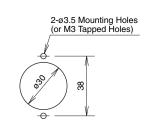




SR2P-51

Style	8-pin octal, panel mount
Terminal	Solder
Electrical Rating	300V, 10A
Compatible Relay	RR2P
Compatible Timer	RTE-P1, GT3 (8-pin), GT5P
Hold-Down Spring	SR3P-01F1 (for relay only)
Hold-Down Clip	SFA-402 (for GT3 8-pin) SFA-302 (for GT5P)

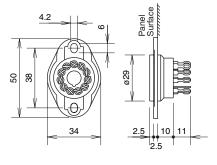


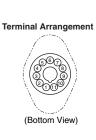


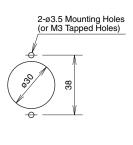


SR3P-51

11-pin octal, panel mount
Solder
300V, 10A
RR3PA, *RR2KP (*latching relay)
GT3 (11-pin), RTE-P2
SR3P-01F1 for RR3PA SR3P-51F3 for RR2KP
SFA-402 (for GT3 11-pin, RTE-P2)









- 1. For socket mounting accessories, see page F-29.
- 2. For hold-down clip/spring selections, see page F-4.

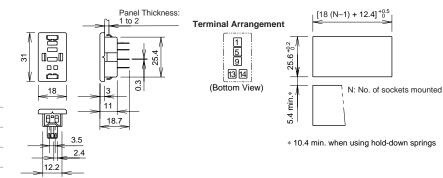


SH Series: Panel Mount Sockets



SH1B-51

5-blade, panel mount
Solder
300V, 10A
RH1B
SY4S-51F1
SFA-301 (top notch), SFA-302 (side notch)

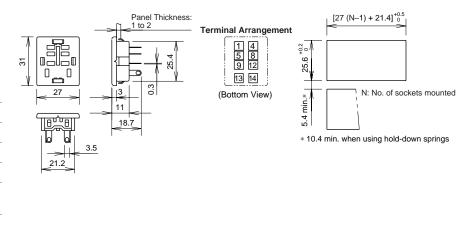






SH2B-51

OTIZE ST	
Style	8-blade, panel mount
Terminal	Solder
Electrical Rating	300V, 10A
Compatible Relay	RH2B
Hold-Down Spring	SY4S-51F1 SY4S-02F1 for RH2B-4C
Hold-Down Clip	SFA-301 (top notch), SFA-302 (side notch)





- ${\it 1. For socket mounting accessories, see page F-29.}$
- 2. For hold-down clip/spring selections, see page F-4.

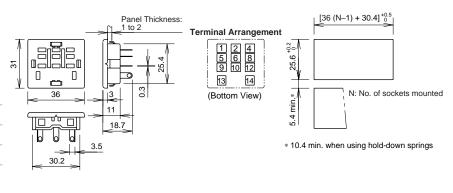


SH Series: Panel Mount Sockets, continued



SH3B-51

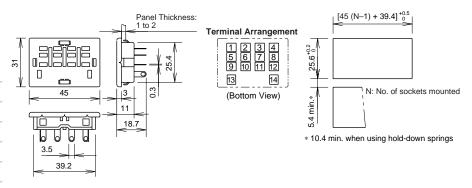
11-blade, panel mount
Solder
300V, 10A
RH3B, *RH2LB (*latching relay)
SY4S-51F1 SY4S-02F1 for RH3B-4C
SFA-301 (top notch), SFA-302 (side notch)





SH4B-51

01170 01	
Style	14-blade, panel mount
Terminal	Solder
Electrical Rating	300V, 10A
Compatible Relay	RH4B
Hold-Down Spring	SY4S-51F1, SY4S-02F1
Hold-Down Clip	SFA-301, SFA-302





- 1. For socket mounting accessories, see page F-29.
- 2. For hold-down clip/spring selections, see page F-4.

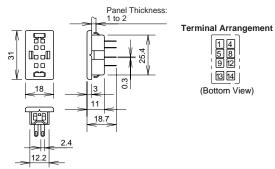


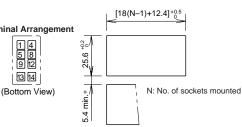
SY Series: Panel Mount Sockets



SY2S-51

0.200.	
Style	8-blade, panel mount
Terminal	Solder
Electrical Rating	300V, 7A
Compatible Relay	RY2S, RY22S
Hold-Down Spring	SY4S-51F1
Hold-Down Clip	SFA-301 (top notch), SFA-302 (side notch)





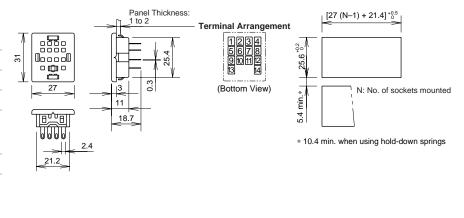
* 10.4 min. when husing hold-down springs





SY4S-51

5 Y 45-5 I	
Style	14-blade, panel mount
Terminal	Solder
Electrical Rating	300V, 7A
Compatible Relay	RY4S, RY42S, RM2S, RY2KS, RU4S, RU2S, RU42S
Compatible Timer	GT5Y
Hold-Down Spring	SY4S-51F1 for all relays except; SY4S-02F3 for RY2KS relay
Hold-Down Clip	SFA-301 (top notch), SFA-302 (side notch)





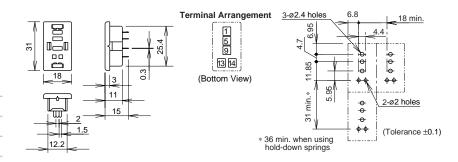
- ${\it 1. For socket mounting accessories, see page F-29.}$
- 2. For hold-down clip/spring selections, see page F-4.

SH Series: PC Board Mount Sockets



SH1B-62

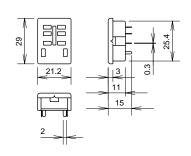
Style	5-blade
Terminal	Solder/PCB mount
Electrical Rating	250V, 10A
Compatible Relay	RH1B
Hold-Down Spring	SY4S-51F1
Hold-Down Clip	SFA-301 (top notch), SFA-302 (side notch)

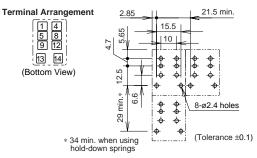




SH2B-62

Style	8-blade
Terminal	Solder/PCB mount
Electrical Rating	300V, 10A
Compatible Relay	RH2B
Hold-Down Spring	SY4S-51F1, SY4S-02F1
Hold-Down Clip	SFA-301 (top notch), SFA-302 (side notch)

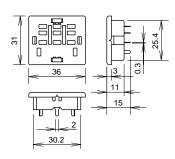


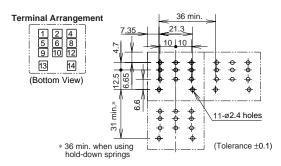




SH3B-62

01100 02	
Style	11-blade
Terminal	Solder/PCB mount
Electrical Rating	300V, 10A
Compatible Relay	RH3B, *RH2LB (*latching relay)
Hold-Down Spring	SY4S-51F1, SY4S-02F1
Hold-Down Clip	SFA-301 (top notch), SFA-302 (side notch)







- 1. For socket mounting accessories, see page F-29.
- $2.\ For\ hold-down\ clip/spring\ selections,\ see\ page\ F-4.$

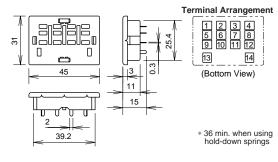


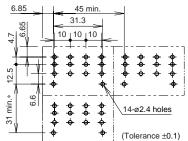
SH Series: PC Board Mount Sockets, continued



SH4B-62

Style	14-blade
Terminal	Solder/ PCB mount
Electrical Rating	300V, 10A
Compatible Relay	RH4B
Hold-Down Springs	SY4S-51F1, SH4B-02F1
Hold-Down Clip	SFA-301 (top notch), SFA-302 (side notch)



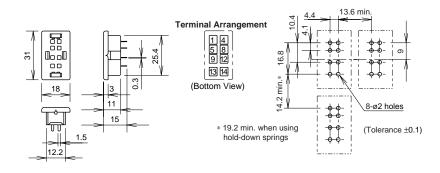


SY Series: PC Board Mount Sockets



SY2S-61

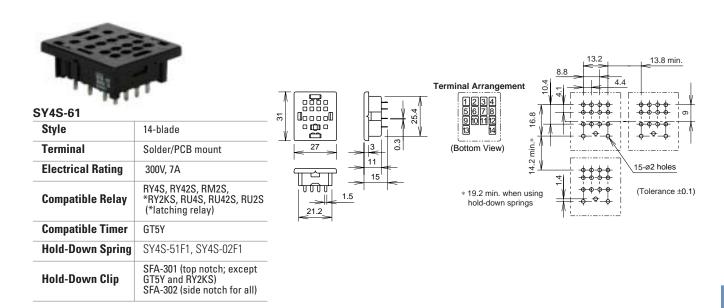
Style	8-blade
Terminal	Solder/PCB mount
Electrical Rating	300V, 7A
Compatible Relay	RY2S, RY22S
Hold-Down Spring	SY4S-51F1
Hold-Down Clip	SFA-301 (top notch), SFA-302 (side notch)





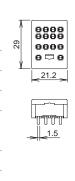
- 1. For socket mounting accessories, see page F-29.
- 2. For hold-down clip/spring selections, see page F-4.

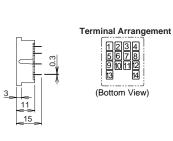
SY Series: PC Mount Sockets, continued

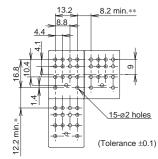




Style	14-blade
Terminal	Solder/PCB mount
Electrical Rating	250V, 7A
Compatible Relay	RY4S, RY42S, RU4S, RU42S, *RY2KS (*latching relay)
Compatible Timer	GT5Y
Hold-Down Spring	SY4S-51F1, SY4S-51F3, SY4S-51F4, *SY4S-02F1, *SY4S-02F3 (*when mounting a relay with check button)







- * 17.2 min. when using a hold-down spring.
- ** 13.2 min. when using a hold-down spring for the relay with check button.



- 1. For socket mounting accessories, see page F-29.
- 2. For hold-down clip/spring selections, see page F-4.

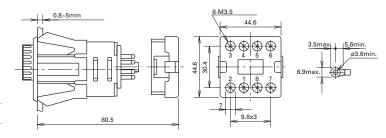


SR Series: Socket for Panel Mounted Timers



SR6P-M08G

8-pin
M3.5 screws with captive wire clamp
300V, 10A
Maximum up to 2-#12AWG
GT3 (8-pin), RTE-P1, GE1A
SY4S-02F1

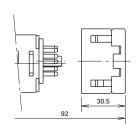


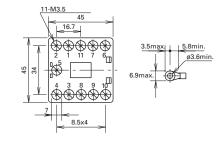
F



SR6P-M11G

Style	11-pin
Terminal	M3.5 screws with captive wire clamp
Electrical Rating	300V, 10A
Wire Size	Maximum up to 2-#12AWG
Compatible Timer	GT3 (11-pin), RTE-P2
Hold-Down Spring	



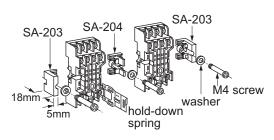




- 1. For socket mounting accessories, see page F-29.
- 2. For hold-down clip/spring selections, see page F-4.



Accessories





Description	Appearance	Use with	Part No.	Remarks
Aluminum DIN Rail (1 meter length)		All DIN rail sockets	BNDN1000	IDEC offers a low-profile DIN rail (BNDN1000). The BNDN1000 is designed to accommodate snapmount sockets. Made of durable extruded aluminum, the BNDN-1000 measures 0.413 in height and 1.37 (35mm) in width (DIN standard). Standard length is 39" (1,000mm).
DIN Rail End Stop		DIN rail	BNL5	9.1 mm wide.
Surface Mount	n Li	SY2S, SY4S, SR3B, SH1B,	SA-203	For use on ends of socket groupings when surface mounting.
End Connector	4 4	SH2B, SH3B, SH4B	SA-204	For use between adjoining sockets when surface mounting.
Surface Mount Connector		SY2S, SY4S, SR3B, SH1B, SH2B, SH3B, SH4B	SA-405	For use between adjoining sockets when surface mounting.
DIN Rail Spacer		All DIN rail sockets	SA-406	
Steel Mounting Plates		SY4S-51, SH2B-51	SA-402	11.42" length with 10 holes.
(for panel mount sockets)		SY4S-51, SH2B-51	SA-403	23.33" length with 21 holes.
	UL.	RH2B, RM2S, RY4S, RY42S, RU4S, RU42S	RH-01	
Relay Holders		RY2S, RH1B	RH-03	For diagram, see next page.
Replacement Hold- Down Spring Anchor		Horseshoe clip for all DIN rail sockets except SR*P-05(C)	Y778-011	For use with hold-down springs (bale wire types). or DIN rail mount sockets. 2 pieces included with each socket.
Hold-Down Spring for SR*P-05(C)	P.	Chair clip for SR*P-05(C)	Y703-102	For SR2P-05, SR2P-05C, SR3P-05, SR3P-05C

Instructions

Mounting Snap-Mount Sockets





Figure 1



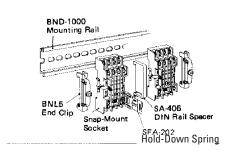
Figure 2

Snap-mount sockets are designed to mount on the BNDN-1000 mounting rail. The built-in mounting clip eliminates mounting hardware and reduces mounting time by 80%.

To mount see Figure 1. Place the end of the socket (end opposite of mounting clip against the outer edge of the rail). Press the socket down firmly until the clip snaps onto the mounting rail. To remove see Figure 2. Pull out the mounting clip with a screwdriver, and lift

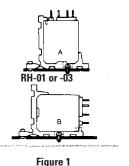
For spacing between adjoining sockets, use the SA-406 DIN rail spacer. Spacers are 0.195" wide. Spacing can be adjusted according to the number of spacers added. Spacers snap on and off easily like snap-mount sockets.

To prevent side-to-side movement, use a BNL-5 end clip at each end of every socket row.



Mounting Relay Holders





Mount directly onto panel boards in two alternate positions: A and B (see Figure 1).

To mount the relay into the holder, hook the bottom edge of the relay case (coil terminal side) onto the relay holder (see Figure 2).

Push down until the relay snaps into place.

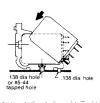


Figure 2

Mounting Hold-Down Springs

Take the two anchor clips (horseshoe / U-shaped piece) that come with the socket and insert into the slits on both sides of the socket. Make sure the raised notches on the anchor clip face into the socket.

Plug relay into socket

Insert the open ends of the hold-down spring into either the first or second hole of the anchor clip. The relay-spring combination will determine which hole should be used.

Slide spring over relay.



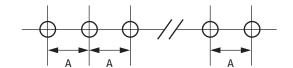
Dimensions

Surface Mount Sockets (SH2B-02)

IDEC surface mount sockets (SH2B-02) are also designed to mount individually or collectively on a flat surface without the use of a DIN rail. Use the mounting screw between adjoining sockets and at the outer ends of the row of sockets.

Dimension Table

Socket Part No.	Dimension A
SH2B-02	1.14"





1. Drawing is not to scale.

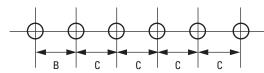
Snap-Mount Sockets

Snap-mount sockets are designed to mount individually or collectively without using a rail. Use a SA-405 connector or SA-204 connector between adjoining sockets (see Figures 1 and 2). Use the SA-203 end connector at the outer ends of each socket row when using the SA-204 connector (see Figure 2).

Dimension Table

Socket Part No.	Dim. B	Dim. C	Dim. D
SY2S-05, SY2S-05C	0.669"	0.826"	0.866"
SY4S-05, SY4S-05C	1.024"	1.181"	1.220"
SR3B-05	1.496"	1.693"	1.732"
SH1B-05, SH1B-05C	0.630"	0.787"	0.827"
SH2B-05, SH2B-05C	1.024"	1.181"	1.220"
SH3B-05, SH3B-05C	1.417"	1.575"	1.614"
SH4B-05, SH4B-05C	1.811"	1.969"	2.008"

Using an SA-406 Connector



0.165" Hole Using SA-203 or SA-204 Connectors



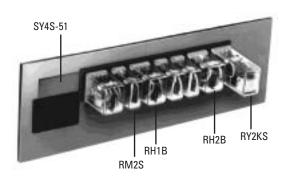
2. Drawings are not to scale.

or M4 Tapped



Dimensions, continued

Collective Panel Mounting





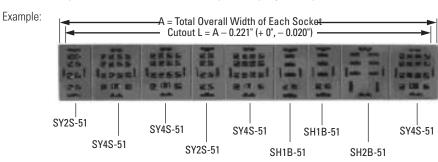
SH and SY series panel mount sockets are designed to mount collectively in panel cut-outs. Insert socket with mounting springs facing the top and bottom edge of the panel cut-out. Push the socket until the mounting spring clips onto the panel. (See Figure 1.)

Dimension Table

Part No.	Width	Relay
SY4S-51	1.063"	RY4S, RY42, RY2KS, RM2S
SH4B-51	1.772"	RH4B
SH3B-51	1.418"	RH3B, RH2LB
SH2B-51	1.063"	RH2B
SH1B-51	0.709"	RH1B
SY2S-51	0.709"	RY2S, RY22S

How to Calculate Cutout Length (L)

Cutout L = A (Total Overall Width of Each Socket) -0.221" (+ 0", -0.020")



 $\mathbf{L} = [0.709" + 1.063" + 1.063" + 0.709" + 1.063" + 0.709" + 1.063" + 1.063" + 1.063"] - 0.221" = \mathbf{7.93"}$

L = 7.93" (+ 0", -0.020")

Mounting Plate

