Industrial Automation Catalog Section - U906

PCB Mount Sockets

Selection Guide

SH Series

SY Series

Accessories

Dimensions





Relay and Timer Socket Selection Guide

	Series	Page	Part No.	No. of Poles	Receptacle	Terminal	Compatible IDEC Relay and Timer
N Rail Snap-Mount	OM.	TW	SR2P-05 SR2P-05C SR2P-06	2	8-Pin	M.I.W	RR2P, GT5P, RTE-P1, GT3 (8-pin)
MAM. 100X	SR	F-6	SR3P-05 SR3P-05C SR3P-06	3	11-Pin	M3.5 Screw	RR3PA, RR2KP, RTE-P2 GT3 (11-pin)
	-7 CC	M.T.	SR3B-05	3	11-Blade	$CO_{M''}$	RR1BA, RR2BA, RR3B, RTE-B
EEEE	ovi.C	OM.T	SH1B-05 SH1B-05C	1	5-Blade	M3.5 Screw Coil Terminal: M3	RH1B
	SH	F-9	SH2B-05 SH2B-05C	2	8-Blade	N.COM.T	RH2B
	1007	4 CO	SH3B-05 SH3B-05C	3	11-Blade	M3.5 Screw	RH3B, RH2LB
	N.100	Y.C	SH4B-05 SH4B-05C	4	14-Blade	100 1. COM	RH4B
LAE JES	SY	F-13	SY2S-05 SY2S-05C	2	8-Blade	M3 Screw	RY2S, RY22S
I.C. MITW	MM'	1001	SY4S-05 SY4S-05C	4	14-Blade	W.100X.CO	RU4S, RY4S, RY42S, RY2KS, RY2LS, RM2S, GT5Y
N.CO.T.TW	SM	F-15	SM2S-05 SM2S-05C	W	WV	1001.0	RU2S
nel Mount	NVI	W.100	SR2P-51	2	8-Pin	WW.100X.	RR2P, RAPP, RBPP, GT5P, RTE-P1, GT3 (8-pin)
	SR	F-16	SR3P-51	3	11-Pin	N. 1003	RR3PA, RR2KP, RTE-P2, GT3 (11-pin)
	W	MN.T.	SR3B-51	3	11-Blade	WW 1 100	RR1BA, RR2BA, RR3B
10990 CO	SH	MW.	SH1B-51	1	5-Blade	Solder	RH1B, RAHB, RBHB
TOO YOUR ON THE PARTY OF THE PA		F-17	SH2B-51	2	8-Blade		RH2B, RAMB, RBMB
AND THE RESERVE OF THE PERSON			SH3B-51	3	11-Blade		RH3B, RH2LB
			SH4B-51	4	14-Blade		RH4B
Allan Color	SY	F-19	SY2S-51	2	8-Blade	MM	RY2S, RY22S
M.M. T. C. 1990.		1-19	SY4S-51	4	14-Blade	MM	RY4S, RY42S, RY2KS, RY2LS, RM2S, GT5
3 Mount	N		SH1B-62	1	5-Blade	WW	RH1B, RAHB, RBHB
100x. COM.T.	СП	E2 20	SH2B-62	2	8-Blade		RH2B, RAMB, RBMB
001. OM.	SH	F3-20	SH3B-62	3	11-Blade		RH3B, RH2LB
100 X COM	WT		SH4B-62	4	14-Blade	PC Board	RH4B
	W		SY2S-61	2	8-Blade	V V	RY2S, RY22S
	SY	F3-21	SY4S-61	4	14-Blade	TV	RY4S, RY42S, RY2KS, RY2LS, RM2S, GT5
M. J. Jan.	M_{JJ}	×1	SY4S-62	4	14-Blade	. 7	RY4S, RY42S, RY2KS, RY2LS, RM2S, GT5
face Mount	OM.T	N	1111	W.1	101.	C.T.	A. TONY CON'L
W.100Y.C	SH	F-23	SH2B-02	2	8-Blade	M3.5 Screw	RH2B, RAMB, RBMB
or Panel Mounted Timers		. 1		AT N	The	UN.	M. Iv. COM.
MAN. 100	Y.CO	M.T	SR6P-M08G	WW	8-pin	COM.TW	GE1A; RTE-P1; GT3A-1,-2,-3; GT3D-1,-2,-3; GT3W (8-pin); GT3S; GT3F
TO THE PARTY OF TH	SR	F-23	F-23 SR6P-M11G	2	11-pin	M3.5 Screw	RTE-P2; GT3A-4,-5,-6; GT3D-4,-8; GT3W (11-pin)





Rated Insulation Voltage	300V; except SH1B and SY4S-62: 250V
Rated Current	SR/SH/SM: 10A, SY: 7A (SH1B coil terminal 7A)
Insulation Resistance	100MΩ minimum
Dielectric Strength	2,000V AC, 1 minute
Material Grade	UL94V-0











1. * Applicable to DIN rail sockets only.

Relay Socket Part Numbering Guide

Relay socket part numbers are composed of 5 part number codes. When ordering a relay socket, select one code from each category. Example: SR2P-05C



2







① Socket Series

② No. of Poles

3 Termination

4 Mounting Style

5 Fingersafe Option

Part Numbers: Relay Sockets

	Description	Part Number Code	Remarks
COM	SR	SR	For use with RR series relays
(A) Cardy Carian	SH	SH	For use with RH series relays
① Socket Series	SY	SY	For use with RY series relays
	SM	SM	For use with RU2, RM2 series relays
A. CO.	1-pole	VICT TW	SH series
② No. of Poles	2-pole	2 CO	SR, SH, SM, and SY series
② NO. OI POIES	3-pole	3 COM	SR, and SH series
	4-pole	104	SH series
MALL TOOK C	Tubular pin	POY	SR series
③ Termination	Blade	B .C	SH series
WW.100	Solder/blade	S	SY and SM series
MMM:100	DIN rail snap-mount	05 COV	To decide between configuration 05 and 06, see pictures and schematics beginning on page F-6
4 Mounting	OY.COM. W	06	Model 05 is available as 05C with a fingersafe option; see ⑤ below
Styles	Panel mount	51	TW WWW.100Y.CO.
	DO NO SECOND	61 C	DM. TAN MAN. T. COM. TAN
	PC board mount	62	OW.I.
5 Fingersafe	With finger-protection terminals	C	Available only on CD CH CM and CV opins on a manufacture
Option	Without finger-protection terminals	Leave blank	Available only on SR, SH, SM, and SY series snap-mount sockets



- 2. For hold-down springs and clips for DIN rail snap-mount, panel mount, and PC board mount, see page F-4.
- 3. For socket accessories, see page F-24.

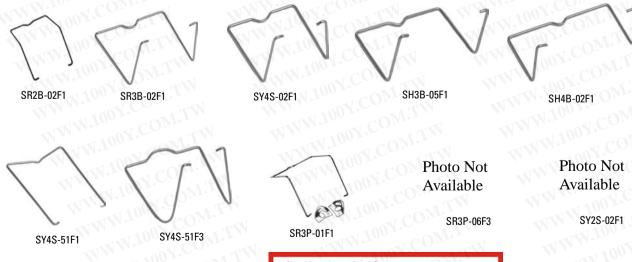
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Hold-Down Springs and Clips Selection Guide

DIN Rail Snap-Mount Sockets

Socket Part No.	Applicable Relays, Timer	Hold-Down Pullover Spring	Hold-Down Clip (side notch)	Hold-Down Clip (top notch)
SR2P-05	RR2P	SR2B-02F1	SFA-203	_
SR2P-05C	RTE-P1, GT3, GT5P	N- WWW.	SFA-203	_
CDOD OC	RR2P	SR2B-02F1	SFA-202	I -
SR2P-06	GT3 (8-pin), RTE-P1, GT5P	<u> </u>	SFA-202	
V V	RR3PA	SR3B-02F1	SFA-203	<u> </u>
SR3P-05 SR3P-05C	RR2KP	SR3P-06F3	SFA-203	CA)
0.10.1 000	RTE-P2, GT3 (11-pin)	- WWW	SFA-203	
T.T.	RR3PA	SR3B-02F1	SFA-202	
SR3P-06	RR2KP	SR3P-06F3	SFA-202	VII.
	RTE-P2, GT3 (11-pin)	TW WW	SFA-202	ATTY
SR3B-05	RR1BA, RR2BA, RR3B, RTE-B	SR3B-02F1	SFA-202	- TW
SH1B-05 SH1B-05C	RH1B	SY2S-02F1	MAN TOON'C	SFA-101 SFA-202
SH2B-05 SH2B-05C	RH2B	SY4S-02F1	M.1007.	SFA-101 SFA-202
SH3B-05 SH3B-05C	RH3B, RH2LB	SH3B-05F1	M. 100	SFA-101 SFA-202
SH4B-05 SH4B-05C	RH4B	SH4B-02F1	-WWW.100	SFA-101 SFA-202
SY2S-05 SY2S-05C	RY2S, RY22S	SY2S-02F1	- WWW.I	SFA-101 SFA-202
SY4S-05	RY4S, RY42S, RY2LS, RM2S	SY4S-51F1	- 444	SFA-101 SFA-202
SY4S-05C	RY2KS, GT5Y	(SY4S-51F3)	- 1111	SFA-202

- 1. Hold-down springs work in conjunction with hold-down spring anchors included with DIN rail sockets.
- 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 notch)	Hold-Down Clip (top notch)
SR2P-51	RR2P	SR3P-01F1	-TW	_
3N2F-31	GT3 (8-pin), RTE-P1	- WWW. CO	SFA-402	_
	RR3PA	SR3P-01F1	DIA.	_
SR3P-51	RR2KP	SR3P-51F3	OMIL	_
	GT3 (11-pin), RTE-P2	- M. 100x.	SFA-402	_
SR3B-51	RR1BA, RR2BA, RR3B, RTE-B	SR3B-02F1	COM.TW	_
SH1B-51 SH1B-62	RH1B	SY4S-51F1	COM.T.	SFA-301 SFA-302
SH2B-51	RH2B	SY4S-51F1 (SY4S-02F1)	OV.COM.	SFA-301 SFA-302
SH2B-62	RH2B	SY4S-51F1 (SY4S-02F1)	LOON.T	N
SH3B-51 SH3B-62	RH3B, RH2LB	SY4S-51F1 (SY4S-02F1)	TON.	SFA-301 SFA-302
SH4B-51 SH4B-62	RH4B	SY4S-51F1 (SH4B-02F1)	M-100X COM	SFA-301 SFA-302
SY2S-51 SY2S-61	RY2S, RY22S	SY4S-51F1	14 100 X COL	SFA-301 SFA-302
SY4S-51	RY4S, RY42S, RY2LS	SY4S-51F1 (SY4S-02F1)	VIN. 100Y.CO	SFA-301 SFA-302
SY4S-61	RY2KS	SY4S-51F1 (SY4S-02F3)	SFA-302	OMITW
I.COM	GT5Y	NECO TIN	SFA-302	-MTW
SY4S-62 *	RY4S, RY42S, RY2LS, RM2S	SY4S-51F1 (SY4S-02F1)	WW.100Y	.COM.TW
3143-02	RY2KS	SY4S-51F1 (SY4S-02F3)	-MM.100	COMIT

^{*} Does not accept hold down clips



Photo Not Available

SFA-301 WWW.100Y.COM.TW



SFA-202



SFA-203



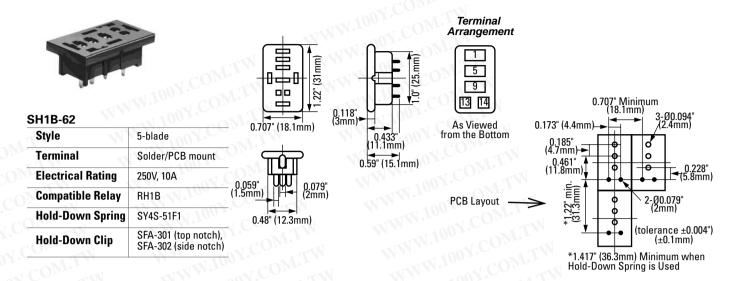


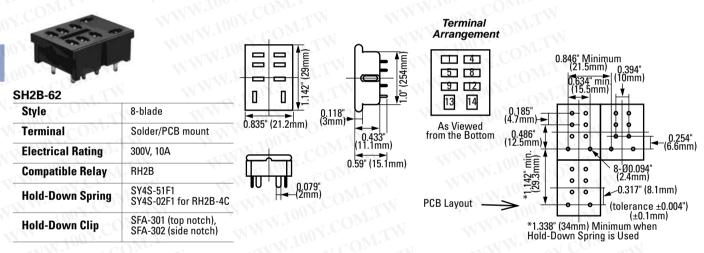
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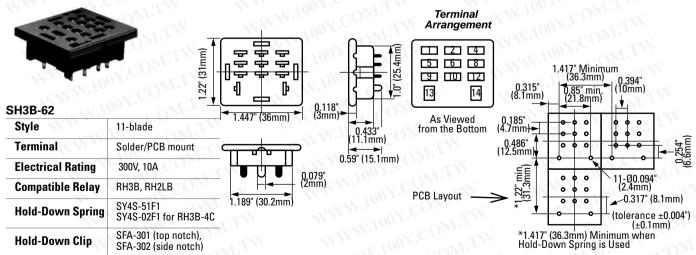
Http://www.100y.com.tw



SH Series: PC Board Mount Sockets







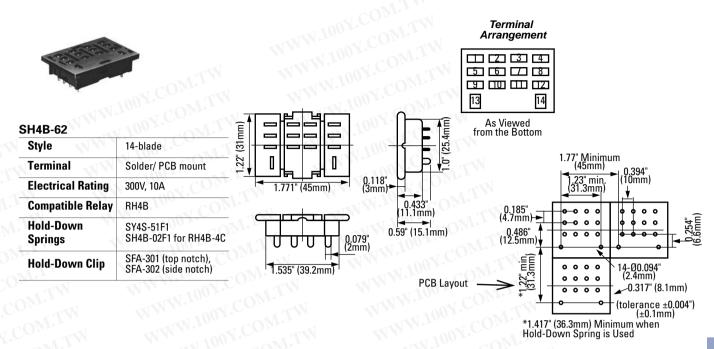


- 1. For socket mounting accessories, see page F-24.
- 2. For hold-down clip/spring selections, see page F-4.

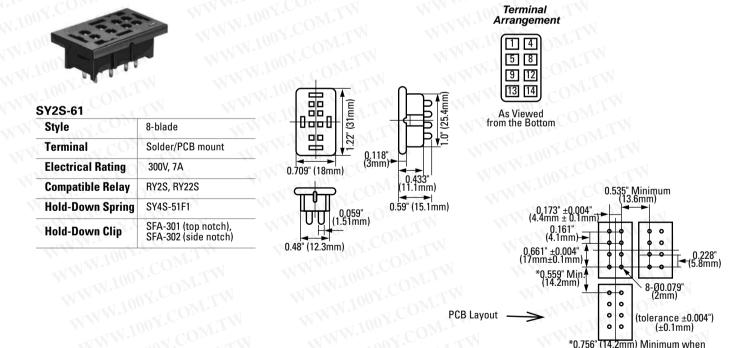
Hold-Down Spring is Used



SH Series: PC Board Mount Sockets, continued



SY Series: PC Board Mount Sockets







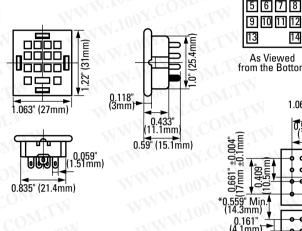
- 1. For socket mounting accessories, see page F-24.
- 2. For hold-down clip/spring selections, see page F-4.

SY Series: PC Mount Sockets, continued



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			·n	

Style	14-blade
Terminal	Solder/PCB mount
Electrical Rating	300V, 7A
Compatible Relay	RY4S, RY42S, RM2S, RY2KS, RY2LS, RU4S, RU2S
Compatible Timer	GT5Y
Hold-Down Spring	SY4S-51F1 SY4S-02F1 for RY2KS relay
Hold-Down Clip	SFA-301 (top notch; except GT5Y and RY2KS) SFA-302 (side notch for all)



PCB Layout

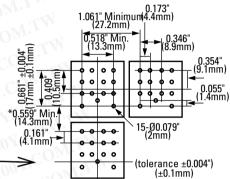
PCB Layout

Arrangement 1234 5 6 7 8

14

Terminal

As Viewed from the Bottom



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*0.756" (19.4mm) Minimum when Hold-Down Spring is Used

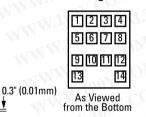
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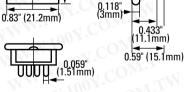


SY4S-62

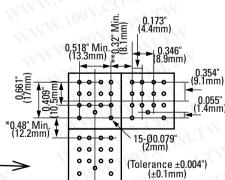
0170 02	
Style	14-blade
Terminal	Solder/PCB mount
Electrical Rating	250V, 7A
Compatible Relay	RY4S, RY42S, RY2LS, RY2KS
Compatible Timer	GT5Y
Hold-Down Spring	SY4S-51F1, SY4S-51F3, SY4S-51F4, *SY4S-02F1, *SY4S-02F3 (*when mounting a relay with check button)
MAN.	100X.COM.TV
WWW.	N.100Y.COM

Terminal Arrangement





特力材料886-3-5753170



*0.67" (17.2mm) Minimum when Hold-Down Spring is Used **0.51 (13.2mm) Minimum when Using a Hold-Down Spring for the Relay Check Button

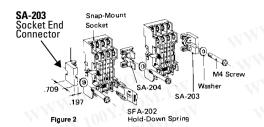
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- 1. For socket mounting accessories, see page F-24.
- 2. For hold-down clip/spring selections, see page F-4.

WWW.100Y.COM.TW

Accessories





Description	Appearance	Use with	Part No.	Remarks
Aluminum DIN Rail (1 meter length)	N. 100 COM.TW	All DIN rail sockets	BNDN1000	¹ DEC offers a low-profile DIN rail BNDN-1000). The BNDN-1000 is designed to accommodate snap- mount sockets and surface mount sockets. Made of durable extruded aluminum, the BNDN- 1000 measures 0.413" in height and 1.37" (35mm) in width (DIN stan- dard). Standard length is 39" (1,000mm).
DIN Rail End Stop	MAY COM	BNDN1000 DIN rail	BNL5	9.1 mm wide.
Surface Mount	WW.100X.COM	SY2S SYAS SR3R SH1R	SA-203	For use on ends of socket groupings when surface mounting.
End Connector	9 MAN 1100 X.CO	SY2S, SY4S, SR3B, SH1B, 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	AMAN'TO AMAN'TO TAN TAN TO TAN TAN TO TAN TAN TO TAN	All DIN rail sockets	SA-406	OX.COM.TW
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.
MAM'I	WILLIAM STATE	RH2B, RM2S, RY4S, RY42S, RY2LS, RAMB, RBMB	RH-01	MAM THE CONT. LA
Relay Holders	TOWNER OF THE STATE OF THE STAT	RY2S, RAHB,RBHB, RH1B	RH-03	For diagram, see next page.
Replacement Hold-Down Spring Anchor horseshoe clip)	M.M.100 COM-LA M.100 COM- M.100 COM-	All DIN rail sockets	Y778-011	For use with hold-down springs (bale wire types) . or DIN rail mount sockets. 2 pieces included with each socket.

idec Sockets

Instructions

WWW.100Y.COM.T

Mounting Snap-Mount Sockets

Mount



Figure 1

Remove

Figure 2

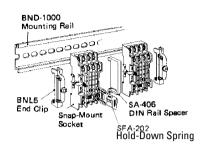


To mount see Figure 1. Place the end of the socket (end opposite of mounting clip against the outer edge of the rail). Press the socket down firmly until the clip snaps onto the mounting rail. To remove see Figure 2. Pull out the mounting clip with a screwdriver, and lift the socket.

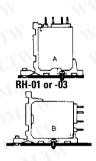
Snap-mount sockets are designed to mount on the BNDN-1000 mounting rail. The built-in mounting clip eliminates mounting hardware and reduces mounting time by 80%.

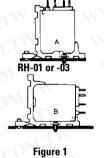
For spacing between adjoining sockets, use the SA-406 DIN rail spacer. Spacers are 0.195" wide. Spacing can be adjusted according to the number of spacers added. Spacers snap on and off easily like snap-mount sockets.

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



Mounting Relay Holders





Push down until the relay snaps into place.



Figure 2

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).

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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.

WWW.1007.C

Slide spring over relay.

Dimensions

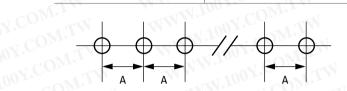
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Surface Mount Sockets (SH2B-02)

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	CO 1.14"





1. Drawing is not to scale.

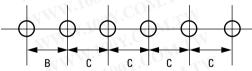
Snap-Mount Sockets

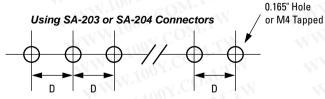
Snap-mount sockets are designed to mount individually or collectively without using a rail. Use a SA-405 connector or SA-204 connector between adjoining sockets (see Figures 1 and 2). Use the SA-203 end connector at the outer ends of each socket row when using the SA-204 connector (see Figure 2).

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"
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"
SR3B-05 1.496" 1.693" 1.732" SH1B-05, SH1B-05C 0.630" 0.787" 0.827"
SH1B-05, SH1B-05C 0.630" 0.787" 0.827"
SH2R-05_SH2R-05C
1.024
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







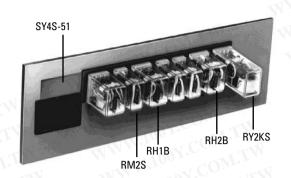
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idec Sockets

Dimensions, continued

Collective Panel Mounting



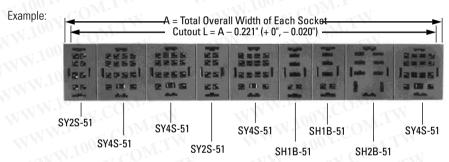


Dimension lable					
Part No.	Width	Relay			
SY4S-51	1.063"	RY4S, RY42, RY2KS, RY2LS, RM2S			
SH4B-51	1.772"	RH4B			
SH3B-51	1.418"	RH3B, RH2LB			
SH2B-51	1.063"	RH2B, RAMB, RBMB			
SH1B-51	0.709"	RH1B, RAHB, RBHB			
SY2S-51	0.709"	RY2S, RY22S			

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.)

How to Calculate Cutout Length (L)

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



L = [0.709" + 1.063" + 1.063" + 0.709" + 1.063" + 0.709" + 1.063" + 1.063"] - 0.221" = 7.93"WWW.100Y.COM.TW

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

Mounting Plate WWW.100Y.COM.TW

