Industrial Automation Catalog Section - U906

Panel Mount Sockets

Selection Guide

SR Series

SH Series

SY Series

Accessories

Dimensions

For up-to-date information, or to request a full copy of this catalog, contact us at **www.idec.com** or **800-262-IDEC.**.

Due to continuous product improvements, specifications are subject to change wihtout notice.



Selection Guide

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Relay and Timer Socket Selection Guide

Relay and Timer Sockets

Mounting	Series	Page	Part No.	No. of Poles	Receptacle	Terminal	Compatible IDEC Relay and Timer
DIN Rail Snap-Mount			SR2P-05 SR2P-05C SR2P-06	2	8-Pin		RR2P, GT5P, RTE-P1, GT3 (8-pin)
	SR	F-6	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
REEE .			SH1B-05 SH1B-05C	1	5-Blade	M3.5 Screw Coil Terminal: M3	RH1B
ETEN -	SH	F-9	SH2B-05 SH2B-05C	2	8-Blade		RH2B
ST AT AT	1	1-5	SH3B-05 SH3B-05C	3	11-Blade	M3.5 Screw	RH3B, RH2LB
			SH4B-05 SH4B-05C	4	14-Blade		RH4B
ALLE K.	SY	F-13	SY2S-05 SY2S-05C	2	8-Blade	M3 Screw	RY2S, RY22S
			SY4S-05 SY4S-05C	4	14-Blade		RU4S, RY4S, RY42S, RY2KS, RY2LS, RM2S, GT5Y
	SM	F-15	SM2S-05 SM2S-05C				RU2S
Panel Mount	SR	F-16	SR2P-51	2	8-Pin		RR2P, RAPP, RBPP, GT5P, RTE-P1, GT3 (8-pin)
	Sn	F-10	SR3P-51	3	11-Pin		RR3PA, RR2KP, RTE-P2, GT3 (11-pin)
Contraction of the second			SR3B-51	3	11-Blade		RR1BA, RR2BA, RR3B
Wanted B			SH1B-51	1	5-Blade		RH1B, RAHB, RBHB
	SH	F-17	SH2B-51	2	8-Blade	Solder	RH2B, RAMB, RBMB
1 Tanta	511	1-17	SH3B-51	3	11-Blade		RH3B, RH2LB
			SH4B-51	4	14-Blade		RH4B
			SY2S-51	2	8-Blade		RY2S, RY22S
18 560	SY	F-19	SY4S-51	4	14-Blade		RY4S, RY42S, RY2KS, RY2LS, RM2S, GT5
PCB Mount			SH1B-62	1	5-Blade		RH1B, RAHB, RBHB
		_	SH2B-62	2	8-Blade		RH2B, RAMB, RBMB
and a m	SH	F3-20	SH3B-62	3	11-Blade		RH3B, RH2LB
			SH4B-62	4	14-Blade	PC Board	RH4B
			SY2S-61	2	8-Blade		RY2S, RY22S
and the second sec	r _{sy}	F3-21	SY4S-61	4	14-Blade		RY4S, RY42S, RY2KS, RY2LS, RM2S, GT5
			SY4S-62	4	14-Blade		RY4S, RY42S, RY2KS, RY2LS, RM2S, GT5
Surface Mount	SH	F-23	SH2B-02	2	8-Blade	M3.5 Screw	RH2B, RAMB, RBMB
For Panel Mounted Timers							
	SR	F-23	SR6P-M08G	2	8-pin	M3.5 Screw	GE1A; RTE-P1; GT3A-1,-2,-3; GT3D-1,-2,-3; GT3W (8-pin); GT3S; GT3F
A DECEMPTION OF THE PARTY OF TH	1 011	1 20			1	110.0 001000	DTE DA 0701 4 5 0 070D 4 0

Passe	Sn	F-23	SR6P-M11G	Z	11-pin	WI3.5 Screw	RTE-P2; GT3A-4,-5,-6; GT3D-4,-8; GT3W (11-pin)
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For relay mounting accessories, see page F-24.

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Selection Guide

	Rated Insulation Voltage	300V; except SH1B and SY4S-62: 250V	UL Recognized	CSA Certified
	Rated Current	SR/SH/SM: 10A, SY: 7A (SH1B coil terminal 7A)	File No. E64245, E62437	File No.LR35144
	Insulation Resistance	100MΩ minimum		
	Dielectric Strength	2,000V AC, 1 minute		
)	Material Grade	UL94V-0	File No. BL950813332307 *	

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





5 Fingersafe Option

R

Part Numbers: Relay Sockets

SR

1 Socket Series

	Description	Part Number Code	Remarks
	SR	SR	For use with RR series relays
① Socket Series	SH	SH	For use with RH series relays
Socket Series	SY	SY	For use with RY series relays
	SM	SM	For use with RU2, RM2 series relays
	1-pole	1	SH series
② No. of Poles	2-pole	2	SR, SH, SM, and SY series
@ NO. OF FUIES	3-pole	3	SR, and SH series
	4-pole	4	SH series
	Tubular pin	Р	SR series
$\ensuremath{\textcircled{3}}$ Termination	Blade	В	SH series
	Solder/blade	S	SY and SM series
	DIN rail snap-mount	05	To decide between configuration 05 and 06, see pictures and schematics beginning on page F-6
④ Mounting		06	Model 05 is available as 05C with a fingersafe option; see $ \widehat{\!\! {oldsymbol {\mathcal S}}} $ below
Styles	Panel mount	51	
	PC board mount	61	
		62	
5 Fingersafe	With finger-protection terminals	C	Available only on SP_SH_SM_and SV earlies onen mount easkete
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	_	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-101 SFA-202
SH2B-05 SH2B-05C	RH2B	SY4S-02F1	_	SFA-101 SFA-202
SH3B-05 SH3B-05C	RH3B, RH2LB	SH3B-05F1	_	SFA-101 SFA-202
SH4B-05 SH4B-05C	RH4B	SH4B-02F1	_	SFA-101 SFA-202
SY2S-05 SY2S-05C	RY2S, RY22S	SY2S-02F1	_	SFA-101 SFA-202
SY4S-05	RY4S, RY42S, RY2LS, RM2S	SY4S-51F1	_	SFA-101 SFA-202
SY4S-05C	RY2KS, GT5Y	(SY4S-51F3)	_	SFA-202

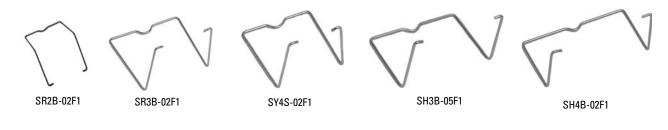
1. Hold-down springs work in conjunction with hold-down spring anchors included with DIN rail sockets.

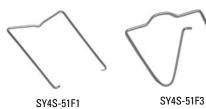
2. When mounting relays with a check button onto panel mount or PC board mount sockets, use the hold-down

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.





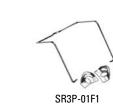


Photo Not Available

SR3P-06F3

Photo Not Available

SY2S-02F1

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Selection Guide

F-4 www.idec.com USA: (800) 262-IDEC or (408) 747-0550, Canada (888) 317-IDEC

dec Sockets

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	—	
3027-31	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, RY2LS	SY4S-51F1 (SY4S-02F1)	_	SFA-301 SFA-302
SY4S-61	RY2KS	SY4S-51F1 (SY4S-02F3)	SFA-302	_
	GT5Y	-	SFA-302	_
SY4S-62 *	RY4S, RY42S, RY2LS, RM2S	SY4S-51F1 (SY4S-02F1)	-	_
5145-02	RY2KS	SY4S-51F1 (SY4S-02F3)	-	_
	<u> </u>	1	1	

* Does not accept hold down clips



Photo Not Available

SFA-301





SFA-203





Selection Guide

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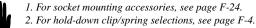
SR Series: Panel Mount

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SR Series: Panel Mount Sockets Terminal Arrangement 1.496" (38mm) 0.433" (T1.1mm) 0.295"--(7.56mm) -f o 白 辽 ③ 住 ⑤ ⑥ 2.027" (52mm) .69" (43.4m (35.3mm *1,40" (35.9mm) 32 立 © © 白 © © 回回 Г 2-Ø0.165" (4.23mm) Nounting Hole 0.866" (22.2mm) С 56 0.266"_ 6.82mm) 0 SR3B-51 0.118" (3mm) 1.28" (32.8mm) 1.694" (43.4mm) ___0.256" (6.56mm) As Viewed from the Bottom 0.866" (22.2mm) Style 11-blade, panel mount (44.4mm Terminal Solder ᅚ **Electrical Rating** 300V, 10A Panel Cutout for Surface Mounting 1.732" <u>۲</u>--\$ 0 0.138" (3.54mm) RR1BA, RR2BA, RR3B **Compatible Relay** Tolerance ±0.01 (±0.31mm) **Compatible Timer** RTE-B 1.38" (35.3mm) *More than 2 Sockets are Mounted Side by Side L=1.496"(n-1)+1.40" (38.4mm (n-1)+35.9mm) n=Number of Sockets Mounted **Hold-Down Spring** SR3B-02F1 (for relays only) HD Spring SFA-402 Panel Surface Terminal Arrangement 0,164" (4.2mm) 0.234" (6mm) 1.95" (50mm 1) 1.48" (38mm • -0,429" (11mm) __<u>1.13"</u> (29mm) SR2P-51 **Bottom View** 0.1"___ (2.5mm) (34mm) 0.39" (10mm) 8-pin octal, panel mount Style 0.1" (2.5mm) Terminal Solder **Electrical Rating** 300V, 10A 1.48" (38mm) RR2P **Compatible Relay** Panel Cutout for Surface Mounting **Compatible Timer** RTE-P1, GT3 (8-pin), GT5P Ø 1.17" (30mm) Ø 0.137" Drilled (3.5mm) or Ø 0.118" Tapped (M3), 2 Holes **Hold-Down Spring** SR3P-01F1 (for relay only) SFA-402 (for GT3 8-pin) SFA-302 (for GT5P) **Hold-Down Clip** Terminal Arrangement HD Spring SFA-402 0.164" (4.2mm) 0.234" (6mm) Panel Surface С 1.9⁵" (50mm) 48 **Bottom View** (38mn SR3P-51 —0,429" (11mm) ____1.13" (29mm) Style 11-pin octal, panel mount 0.1"__• (2.5mm) [']0.39" (10mm) Terminal Solder 0.1" (2.5mm) **Electrical Rating** 300V, 10A RR3PA, RR2KP **Compatible Relay** 1.48" (38mm) Panel Cutout for Surface Mounting **Compatible Timer** GT3 (11-pin), RTE-P2



Hold-Down Spring



SR3P-01F1 for RR3PA

SR3P-51F3 for RR2KP SFA-402 (for GT3 11-pin,

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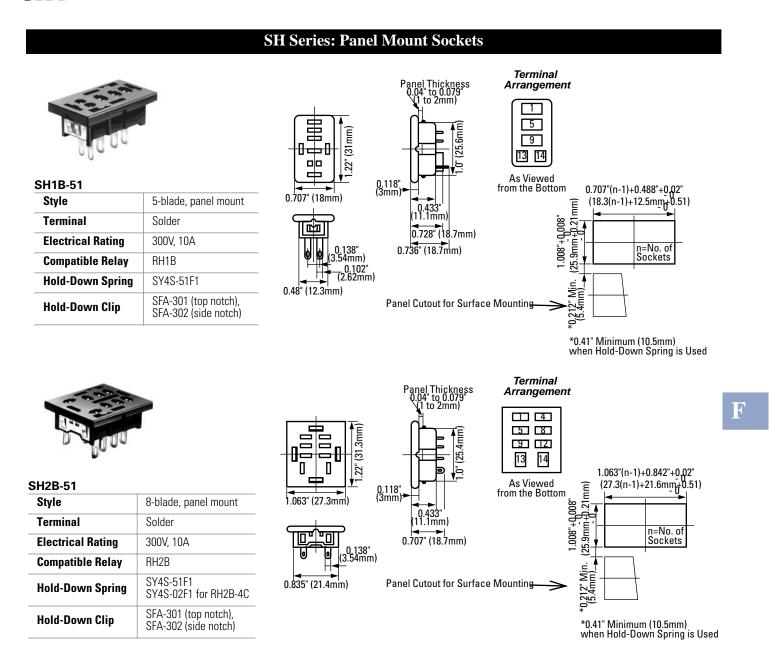
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Ø 1.17" (30mm)

Ø 0.137" Drilled (3.5mm) or Ø 0.118" Tapped (M3), 2 Holes

IDEC Sockets

SH Series: Panel Mount



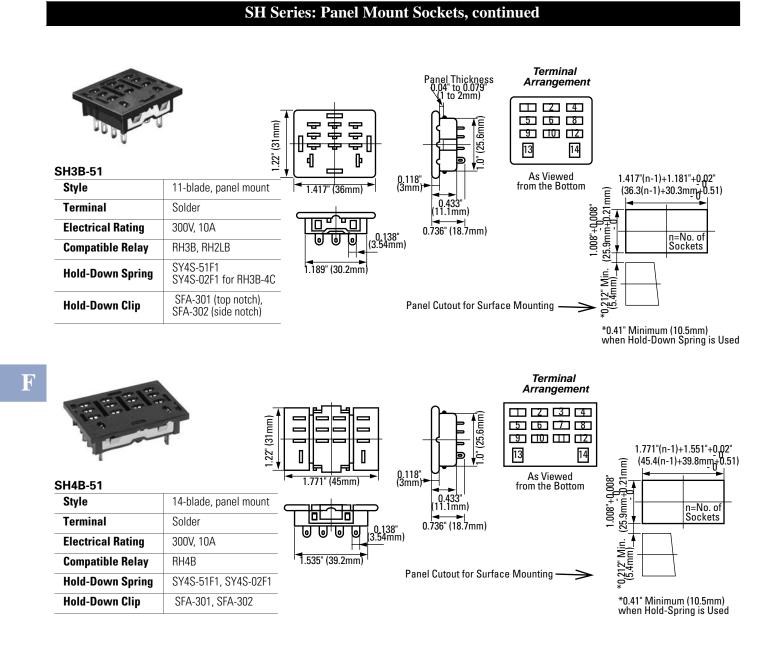


For socket mounting accessories, see page F-24.
For hold-down clip/spring selections, see page F-4.

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SH Series: Panel Mount

idec



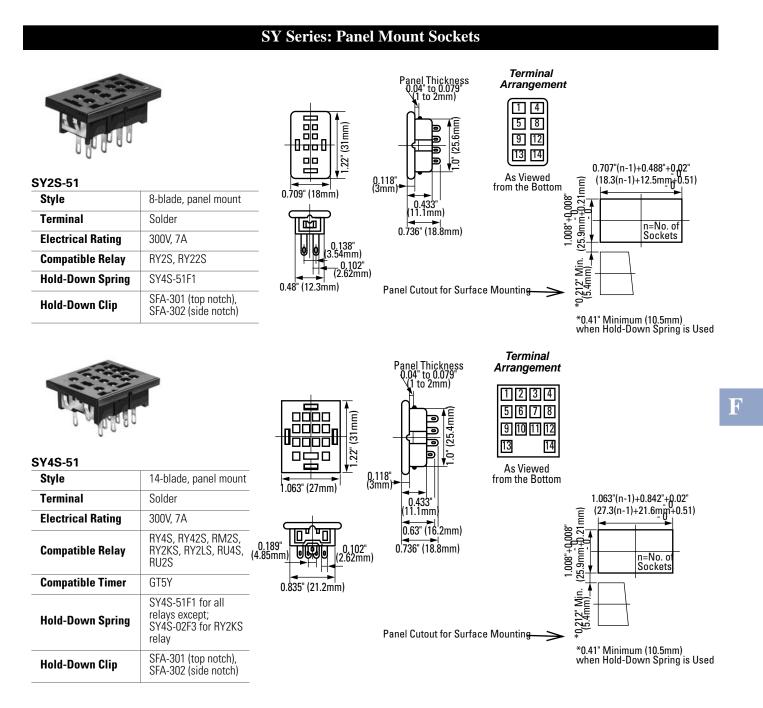


For socket mounting accessories, see page F-24.
For hold-down clip/spring selections, see page F-4.

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Idec Sockets

SY Series: Panel Mount





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

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Accessories

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	Ace	cessories		
SA-203 Socket End Connector	Snap-Mount Socket Socket SA-204 SA-203 SFA-202 Hold-Down Spring	THEFT HERE THE		
Description	Appearance	Use with	Part No.	Remarks
Aluminum DIN Rail (1 meter length)	0	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		BNDN1000 DIN rail	BNL5	9.1 mm wide.
			SA-203	For use on ends of socket group- ings when surface mounting.
Surface Mount End Connector	O'O'	SY2S, SY4S, SR3B, SH1B, SH2B, SH3B, SH4B	SA-204	For use between adjoining sock- ets when surface mounting.
Surface Mount Connector		SY2S, SY4S, SR3B, SH1B, SH2B, SH3B, SH4B	SA-405	For use between adjoining sock- ets 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.
	30	RH2B, RM2S, RY4S, RY42S, RY2LS, RAMB, RBMB	RH-01	
Relay Holders		RY2S, RAHB, RBHB, RH1B	RH-03	For diagram, see next page.

Replacement Hold-Down Spring Anchor (horseshoe clip)	C. C.	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.
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F-24 www.idec.com USA: (800) 26



Instructions

Mounting Snap-Mount Sockets

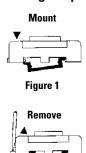


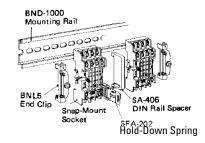
Figure 2

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 the socket.

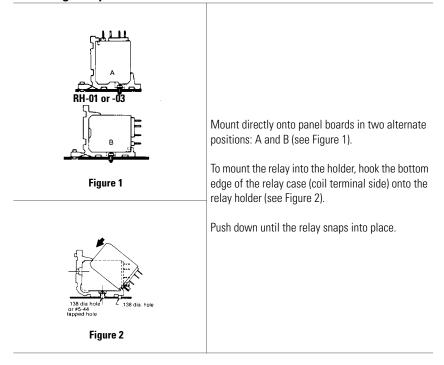
For spacing between adjoining sockets, use the SA-406 DIN rail spacer. Spacers are 0.195" wide. Spacing can be adjusted according to the number of spacers added. Spacers snap on and off easily like snap-mount sockets.

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



Instructions

Mounting Relay Holders



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.

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The relay-spring combination will determine which hole should be used.

Slide spring over relay.

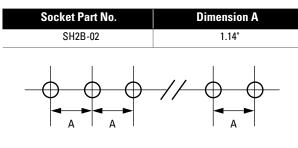
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Dimensions

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



1. Drawing is not to scale.

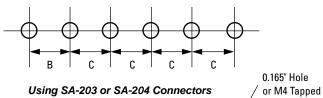
Snap-Mount Sockets

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). F

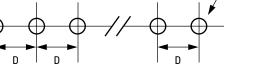
Dimension Table

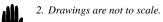
Socket Part No.	Dim. B	Dim. C	Dim. D
SY2S-05, SY2S-05C	0.669"	0.826"	0.866"
SY4S-05, SY4S-05C	1.024"	1.181"	1.220"
SR3B-05	1.496"	1.693"	1.732"
SH1B-05, SH1B-05C	0.630"	0.787"	0.827"
SH2B-05, SH2B-05C	1.024"	1.181"	1.220"
SH3B-05, SH3B-05C	1.417"	1.575"	1.614"
SH4B-05, SH4B-05C	1.811"	1.969"	2.008"

Using an SA-406 Connector











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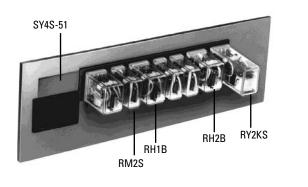


Dimensions

Dimensions, continued

Figure 1

Collective Panel Mounting

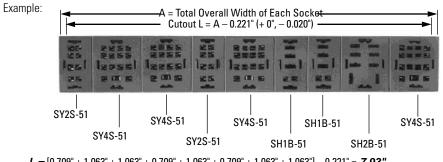


SH and SY series panel mount sockets are designed to mount collectively in panel cut-outs. Insert socket with mounting springs facing the top and bottom edge of the panel cut-out. Push the socket until the mounting spring clips onto the panel. (See Figure 1.)

Dimension Table				
Relay				
42, RY2KS, RY2LS, RM2S				
I2LB				
MB, RBMB				
HB, RBHB				
22S				

How to Calculate Cutout Length (L)

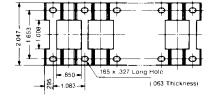
Cutout L = A (Total Overall Width of Each Socket) - 0.221" (+ 0", - 0.020")



 $\boldsymbol{L} = [0.709^{"} + 1.063^{"} + 1.063^{"} + 0.709^{"} + 1.063^{"} + 0.709^{"} + 1.063^{"} + 1.063^{"}] - 0.221^{"} = \boldsymbol{7.93''}$

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

Mounting Plate



F

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