

### **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		F-6	SR2P-05 SR2P-05C SR2P-06	2	8-Pin		RR2P, GT5P, RTE-P1, GT3 (8-pin)
	SR		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
ESEE .			SH1B-05 SH1B-05C	1	5-Blade	M3.5 Screw Coil Terminal: M3	RH1B
and the second			SH2B-05 SH2B-05C	2	8-Blade		RH2B
	SH	F-9	SH3B-05 SH3B-05C	3	11-Blade	M3.5 Screw	RH3B, RH2LB
			SH4B-05 SH4B-05C	4	14-Blade		RH4B
The state of the s			SY2S-05 SY2S-05C	2	8-Blade		RY2S, RY22S
	SY	F-13	SY4S-05 SY4S-05C	4	14-Blade	M3 Screw	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	Solder	RR2P, RAPP, RBPP, GT5P, RTE-P1, GT3 (8-pin)
			SR3P-51	3	11-Pin		RR3PA, RR2KP, RTE-P2, GT3 (11-pin)
			SR3B-51	3	11-Blade		RR1BA, RR2BA, RR3B
0800	SH		SH1B-51	1	5-Blade		RH1B, RAHB, RBHB
			SH2B-51	2	8-Blade		RH2B, RAMB, RBMB
		F-17	SH3B-51	3	11-Blade		RH3B, RH2LB
			SH4B-51	4	14-Blade		RH4B
7000			SY2S-51	2	8-Blade		RY2S, RY22S
46.500	SY	F-19	SY4S-51	4	14-Blade		RY4S, RY42S, RY2KS, RY2LS, RM2S, GT5
PCB Mount			SH1B-62	1	5-Blade		RH1B, RAHB, RBHB
r ob impant			SH2B-62	2	8-Blade		RH2B, RAMB, RBMB
22 2 m	SH	F3-20	SH3B-62	3	11-Blade	-	RH3B, RH2LB
			SH4B-62	4	14-Blade	PC Board	RH4B
			SY2S-61	2	8-Blade	T C Board	RY2S, RY22S
	SY	F3-21	SY4S-61	4	14-Blade		RY4S, RY42S, RY2KS, RY2LS, RM2S, GT5
	31		SY4S-62	4	14-Blade		RY4S, RY42S, RY2KS, RY2LS, RM2S, GT5
Surface Mount			0140 02	1	14 Didde		11140, 111420, 111210, 111210, 111120, 1111
Surface Mount	SH	F-23	SH2B-02	2	8-Blade	M3.5 Screw	RH2B, RAMB, RBMB
For Panel Mounted Timers							
	SR F	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
			SR6P-M11G		11-pin		RTE-P2; GT3A-4,-5,-6; GT3D-4,-8; GT3W (11-pin)



For relay mounting accessories, see page F-24.

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## idec Sockets

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











1. \* Applicable to DIN rail sockets only.

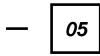
#### **Relay Socket Part Numbering Guide**

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











① Socket Series

② No. of Poles

 $\ \ \, \textbf{3 Termination}$ 

Mounting Style

5 Fingersafe Option

#### **Part Numbers: Relay Sockets**

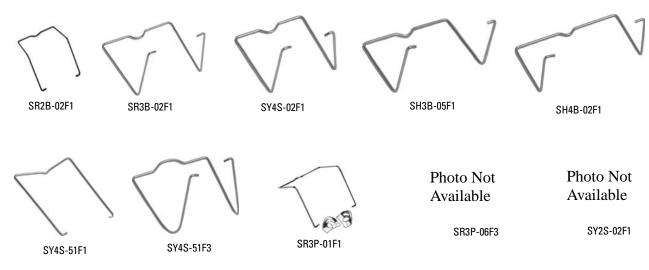
	Description	Part Number Code	Remarks
	SR	SR	For use with RR series relays
① Socket Series	SH	SH	For use with RH series relays
U Sucket Selles	SY	SY	For use with RY series relays
	SM	SM	For use with RU2, RM2 series relays
	1-pole	1	SH series
② No. of Poles	2-pole	2	SR, SH, SM, and SY series
© 140. UI I UIGS	3-pole	3	SR, and SH series
	4-pole	4	SH series
	Tubular pin	P	SR series
<b>③ Termination</b>	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	nting	06	Model 05 is available as 05C with a fingersafe option; see ⑤ below
Styles	Panel mount	51	
	PC board mount	61	
	i C board mount	62	
5 Fingersafe	With finger-protection terminals	С	Available only on SR, SH, SM, and SY series snap-mount sockets
Option	Without finger-protection terminals	Leave blank	Available only on on, on, ow, and or series snap-indult suckets



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.

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 SY4S-05C	RY4S, RY42S, RY2LS, RM2S	SY4S-51F1	_	SFA-101 SFA-202
3143-000	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.



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#### 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)
CDOD E1	RR2P	SR3P-01F1	_	_
SR2P-51	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 SY4S-61	RY4S, RY42S, RY2LS	SY4S-51F1 (SY4S-02F1)	_	SFA-301 SFA-302
	RY2KS	SY4S-51F1 (SY4S-02F3)	SFA-302	_
	GT5Y	_	SFA-302	_
CV4C 62 *	RY4S, RY42S, RY2LS, RM2S	SY4S-51F1 (SY4S-02F1)	_	_
SY4S-62*	RY2KS	SY4S-51F1 (SY4S-02F3)	_	_

<sup>\*</sup> Does not accept hold down clips



SH Series: Panel Mount

\*0.41" Minimum (10.5mm) when Hold-Down Spring is Used

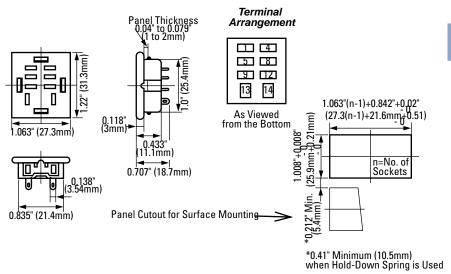
## idec Sockets

#### **SH Series: Panel Mount Sockets** Terminal Arrangement 5 (31mm) 9 13 14 1.22" As Viewed from the Bottom SH1B-51 0.707"(n-1)+0.488"+0.02" |<del>∢ ' ►</del>| 0.707" (18mm) Style 5-blade, panel mount (18.3(n-1)+12.5mm<sub>+</sub>0.51) **Terminal** Solder 0.728" (18.7mm) 300V, 10A **Electrical Rating** (0.138" (3.54mm) 0.102" (2.62mm) n=No. of Sockets 0.736" (18.7mm) Compatible Relay RH1B **Hold-Down Spring** SY4S-51F1 0.48" (12.3mm) SFA-301 (top notch), SFA-302 (side notch) Panel Cutout for Surface Mounting **Hold-Down Clip**



#### SH2B-51

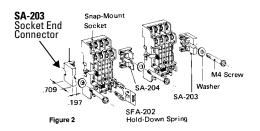
2HZB-21	
Style	8-blade, panel mount
Terminal	Solder
Electrical Rating	300V, 10A
Compatible Relay	RH2B
Hold-Down Spring	SY4S-51F1 SY4S-02F1 for RH2B-4C
Hold-Down Clip	SFA-301 (top notch), SFA-302 (side notch)





- 1. For socket mounting accessories, see page F-24.
- 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	'DEC offers a low-profile DIN rail BNDN-1000). The BNDN-1000 is designed to accommodate snapmount 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 standard). Standard length is 39" (1,000mm).
DIN Rail End Stop		BNDN1000 DIN rail	BNL5	9.1 mm wide.
Surface Mount	. A	SY2S, SY4S, SR3B, SH1B,	SA-203	For use on ends of socket groupings when surface mounting.
End Connector	D'A	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.
	à l	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)		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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#### **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"	
A A	// <b>A</b>	



1. Drawing is not to scale.

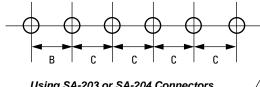
#### **Snap-Mount Sockets**

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 or M4 Tapped

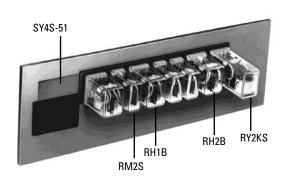


2. Drawings are not to scale.



#### **Dimensions, continued**

#### **Collective Panel Mounting**





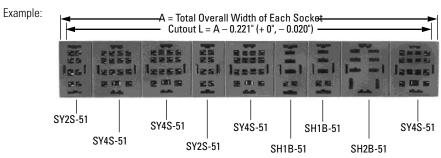
SH and SY series panel mount sockets are designed to mount collectively in panel cut-outs. Insert socket with mounting springs facing the top and bottom edge of the panel cut-out. Push the socket until the mounting spring clips onto the panel. (See Figure 1.)

#### **Dimension Table**

Part No.	Width	Relay			
SY4S-51	1.063"	RY4S, RY42, RY2KS, 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			

#### How to Calculate Cutout Length (L)

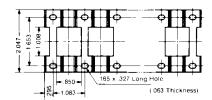
**Cutout L = A** (Total Overall Width of Each Socket) -0.221" (+ 0", -0.020")



L = [0.709" + 1.063" + 1.063" + 0.709" + 1.063" + 0.709" + 1.063" + 1.063" + 1.063"] - 0.221" = 7.93"

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

#### **Mounting Plate**



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