

#### Features

- Broad range of coil options provide sensitivity ranging from 25 to 750mW.
- Various contacts switch from dry circuit to 7.5 amps.
- Many mounting and termination options.

#### Contact Data @ 25°C

**Arrangements:** 1 Form C (SPDT) through 8 Form C (8PDT) See Ordering Information tables for more details regarding availability.

#### Contact Materials, Styles & Ratings @ +25°C

Contact	Contact	Contact	Coil Codes	Conta	ct Ratir	ngs
Code	Material	Style	Available	Min.	Тур.	Max.
W	Silver-Cadmium Oxide	Single Button	V, Q, S, J	500mA	-	7.5A‡
Х	Silver-Cadmium Oxide	Single Button	V, Q, S, J	500mA	-	5A§
Y	Fine Silver	Single Button	All	100mA	2A	ЗA
Z	Fine Silver	Bifurcated	All	1mA	100mA	2A
Р	Gold overlay on Silver	Bifurcated Crossbar	All	Dry Circuit	1mA	ЗA

Ratings are at 28VDC or 155VAC unless otherwise specified. Total load must not exceed 30A per relay.

 Use ungrounded frame for AC loads of 5A or greater. Max.ratings are 7.5A at 115VAC and 4A at 28VDC for coil codes S and J.
Use ungrounded frame for AC loads of 5A or greater. Max.ratings are 5A at 115VAC and 3A

§ Use ungrounded frame for AC loads of 5A or greater. Max.ratings are 5A at 115VAC and 3A at 28VDC for coil codes S and J.

#### UL Horsepower Contact Ratings (Coil Code V Only)

Contact Code	No. of Poles	At 110-120VAC	At 220-240VAC
W	1, 2, 4	1/8 HP (3.8A)	1/6 HP (2.2A)
Х	1, 2, 4, 6	1/20 HP (1.5A)	1/10 HP (1.5A)

Expected Mechanical Life: 100 million operations, typical. (Except contact Code W: 1,000,000 operations, typical.)

#### Typical Expected Life For Resistive Loads @ 25°C

Туре	Current	Voltage	Contact Style	Coil Code	Operations††
R10	7.5A	120VAC, 60 Hz.	W	V,S,J	$7.5 \cdot 10^{4}$
R10	7.5A	28VDC	W	V	7.5 · 10 <sup>4</sup>
R10	5.0A	120VAC, 60 Hz.	Х	V,S,J	5 · 10 <sup>4</sup>
R10	5.0A	28VDC	Х	V	5 · 10 <sup>4</sup>
R10	4.0A	28VDC	W	S,J	2 · 10 <sup>4</sup>
R10	3.0A	28VDC	Х	S,J	2 · 10 <sup>4</sup>
R10	3.0A	28VDC or 120VAC	Р	V,S,J	3 · 10 <sup>4</sup>
R10	2.0A	28VDC	P,Y,Z	V	1.5 · 10 <sup>6</sup>
R10	2.0A	28VDC	P,Y,Z	S,J	6 · 10 <sup>5</sup>
R10S	2.0A	28VDC	P,Y,Z	J	5 · 10 <sup>5</sup>
R10	1.0A	28VDC	P,Y,Z	V,S,J	12 · 10 <sup>6</sup>
R10	1.0A	28VDC	P,Y,Z	SS,JJ	5 · 10 <sup>5</sup>
R10S	1.0A	28VDC	P,Y,Z	J	1 · 10 <sup>6</sup>
R10	500mA	28VDC	P,Y,Z	SS,JJ	5 · 10 <sup>6</sup>
R10	100mA	28VDC or 120VAC	P,Y,Z	V,S,J	1 · 10 <sup>8</sup>
R10	100mA	48VDC	P,Z	SS,JJ	5 · 10 <sup>6</sup>
R10	100mA	6VDC	Р	SS,JJ	5 · 10 <sup>7</sup>
R10S	100mA	28VDC or 120VAC	P,Y,Z	J	1 · 10 <sup>6</sup>
R10	50mA	6VDC	P,Z	V,S,J	5 · 10 <sup>7</sup>
R10S	30mA	6VDC	P,Z	J	5 · 10 <sup>6</sup>
R10	1mA	6VDC	Р	SS,JJ	5 · 10 <sup>7</sup>
tt Relay	operated a	at rated coil voltage or	133% of pick-up	current or hi	gher.

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#### **Initial Dielectric Strength**

Between Open Contacts: 500V rms, for contact codes P and Z. 1,000V rms for contact codes W, X and Y with coil code V.

Between All Other Conductors: 1,000V rms.

Dimensions are shown for reference purposes only.

Dimensions are in inches over (millimeters) unless otherwise specified.

# R10 series

# General Purpose Dry Circuit to 7.5 Amp Multicontact AC or DC Relay

- R10-E Clear Dust Cover Version
- R10-R Sealed, Immersion Cleanable Type
- R10S Super Sensitive, Logic Compatible

**File E29244** 

(File LR15734)

Users should thoroughly review the technical data before selecting a product part number. It is recommended that user also seek out the pertinent approvals files of the agencies/laboratories and review them to ensure the product meets the requirements for a given application.

#### Capacitance

Between Contacts: 2 pf, typ. Between Contacts and Coil: 2 pf, typ. Between Coil and Frame: 30 pf, typ.

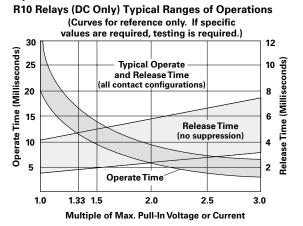
#### **Initial Insulation Resistance**

Between Mutually Insulated Elements: 10<sup>10</sup> ohms @ 25°C, 50% RH. Consult factory for optional acetal resin material rated 10<sup>12</sup> ohms.

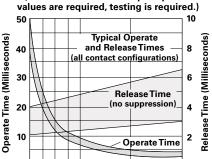
#### Coil Data @ 25°C (also see Coil Data tables)

Voltage: 3 to 115VDC and 6 to 115VAC. Maximum Coil Power: 2.2 Watts. Coil Temperature Rise: 30°C per Watt. Maximum Coil Temperature: 105°C.

#### Operate Data @ 25°C



R10 Ultra-Sensitive "SS" and "JJ" Typical Ranges of Operation (Curves for reference only. If specific



Multiple of Max. Pull-In Voltage or Current

#### **Environmental Data**

**Storage Temperature Range:** -55°C to +105°C. **Operating Temperature Range:** -55°C to +75°C.

3.0

4.0

#### Mechanical Data

1.0 1.5 2.0

Terminal Finish: Tin plating standard. Weight: 0.8 to 1.4 oz. (23 to 40g) approximately.

Specifications and availability subject to change.

### Coil Data Tables @ 25°C

One of the **boldface** resistance or voltage values from a table below is to be inserted in step 6 of the ordering chart on the next page.

V	Standard	d DC Voltage Ac	ljustment	
2.:	2 Watts Maxim	um Continuous Co	il Dissipation @	25°C
VDC a	t 25°C		l Resistance 25°C $\pm$ 10% (ohm	is)
Nominal	Pick-up (Max.)	1, 2 & 4 Form A, B, C or D Pick-up 500mW	6 Form A, B or C Pick-up 850mW	8 Form A, B or C Pick-up 1000mW
3.0	2.25	10	6	5
5.0	3.75	28	16	14
6.0	4.5	52	25	20
12.0	9.0	185	90	72
24.0	18.0	700	430	350
48.0	36.0	2.5K	1.5K	1.25K
72.0	54.0	5.8K	3.5K	2.8K
115.0	86.0	15.0K	9.0K	8.0K

Q		Special	DC Voltag	e Adjustm	ent	
1 & 2 F	orm A, B,	C or D	3&4	Form A, B, O	C or D	
Coil Res. @ 25°C ± 10% (ohms)	Pick-up (Max.) @ 25 <sup>°</sup> C (VDC)	Pick-up @ 25°C (mW)	Coil Res. @ 25°C ± 10% (ohms)	Pick-Up (Max.) @ 25 <sup>°</sup> C (VDC)	Pick-Up @ 25°C (mW)	Nominal Voltage @ 25°C (VDC)
52	3.1	180	32	3.8	450	5
110	4.5	185	52	4.2	340	6
450	9.2	190	185	8.4	380	12
1.8K	17.4	170	1.0K	17.2	295	24
7.5K	36.2	175	3.2K	31.1	300	48
15.0K	49.5	165	7.5K	49.3	325	72
30.0K	67.5	160	15.0K	67.5	300	115

S		Sens	sitive DC Vol	tage Adjustm	ent	
		2.2 Watts N	laximum Contin	uous Coil Dissip	ation @ 25°C	
	VDC at	25°C		Coil Resis at 25°C ± 10%		
	VDC at	23.0	1905	3 & 4 Form A.		0.5
			1 & 2 Form		6 Form A,	8 Form A,
			A, B, C or D	B, C or D	B or C	B or C
No	ominal	Pick-up	Pick-up	Pick-up	Pick-up	Pick-up
		(Max.)	100mW	175mW	250mW	400mW
	3.0	2.25	50	30	20	12
	5.0	3.75	140	80	56	35
	6.0	4.5	200	110	80	52
	12.0	9.0	800	450	320	200
	24.0	18.0	3.2K	1.8K	1.2K	800
	48.0	36.0	13.0K	7.5K	5.2K	3.2K
	72.0	54.0	28.0K	16.0	13.0K	7.5K
	115.0	86.0	50.0K	40.0K	30.0K	16.0K

SS	Ultra-Sensitive Voltage Adjustment (1-4 Pole Only) 2.2 Watts Maximum Continuous Coil Dissipation @ 25°C									
	2	.2 Watts Maxin	num Continuous (	Coil Dissipation @	₽ 25°C					
	VDC a	t 25°C		oil Resistance 25°C ± 10% (ohrr	ıs)					
N	ominal	Pick-up (Max.)	1 Form C Pick-up Power 20mW	2 Form C Pick-up Power 40mW	3 & 4 Form C, Pick-up Power 80mW					
	3.0	2.25	220	110	52					
	5.0	3.75	700	350	175					
	6.0	0.4.5 C	1.0K	500	250					
	12.0	- Dg.0a01	4.0K	2.0K	1.0K					
	18.0	13.5	9.0K	4.5K	2.2K					
	24.0	18.0	15.0K	7.5K	3.7K					
	36.0	27.0	30.0K	15.0K	7.5K					
	48.0	36.0	-	30.0K	15.0K					

Dimensions are in inches over (millimeters) unless otherwise specified.

J	S	ensi	itive DC Cu	rrent Adjus	tment		
			Must Operat	e Current (mA	N)		
		AI	I Applicable T	ypes Except F	R10S		
Coil Resistance ±10% (ohms)	2 Form B, C or Pick-u 85mV	rD ıp	4 Form A, B, C or D Pick-up 175mW	6 Form A, B, C or D Pick-up 250mW	8 Form B or Pick-u 400m	C IP	Max. Coil Current (mA)
1.0K 2.5K 5.0K 10.0K 15.0K	8.5 5.8 4.1 3.1 2.6		13.0 8.4 6.2 4.5 3.5	16.0 10.0 7.2 5.0 4.2	20.0 13.0 9.0 6.4 5.3		45.0 28.0 20.0 14.0 11.5
30.0K	1.7		2.5	2.9	3.7		8.3
			R10S T	ypes Only			
Coil Resista ±10% (ohm	nce %		1 Form C Pick-up 10mW	2 Form Pick-u 20m\	ip		4 Form C Pick-up 40mW
500 1.0k 2.5k 5.0k 10.0l 16.0l 30.0l	<pre></pre>		4.5 (A) 3.2 (A) 2.0 1.4 (B) 1.0 0.8 0.6 (C)	6.3 ( <i>4</i> 4.5 2.9 (E 2.0 1.4 (C 1.2 0.8	3)		9.0 6.5 4.1 (B) 2.9 (C) 2.0 1.4 1.2

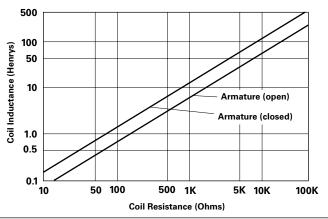
(A) Suggested for 5VDC operation.(B) Suggested for 12VDC operation.(C) Suggested for 24VDC operation.

JJ		Ultra-Sensitive Current Adjustment (1-4 Pole Only) Maximum Pick-Up Current (mA)							
		M	aximum Pick-Up	Current (mA)					
Resi at	Coil istance 25°C 10%	1 Form C Pick-Up Power 20mW	2 Form C Pick-Up Power 40mW	3 & 4 Form C Pick-Up Power 80mW	Maximum Continuous Coil Current (mA)				
1	1.0K 2.5K 5.0K 0.0K 15.0K 80.0K	4.5 2.9 2.1 1.5 1.2 0.85	6.5 4.1 2.9 2.0 1.7 1.2	9.0 5.8 4.1 3.0 2.4 1.7	45.0 28.0 20.0 14.0 11.5 8.3				

	Standard A	C Operated	Relays	
Coil Re @ 25°C ± 20	sistance 0% (ohms)	Volts AC @ 25°C		
2 & 4 Form C	6 & 8 Form C	Pick-Up (max.)	Nominal	Maximum Continuous
25	15	5.0	6	7.2
120	90	9.0	12	14.5
500	350	18.0	24	30.0
2.0K	1.4K	36.0	48	60.0
9.0K	7.5K	86.0	115	130.0

Note: Dual coil diode rectified construction.

### **Typical Coil Inductance**



Specifications and availability subject to change.

#### tyco Electronics

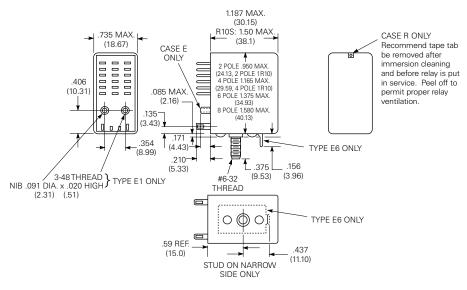
			Typical Part N	umber 🕨	R10 -E	1	Y	4	-V70
Basic Se	ries:								
R10 = Re	elay with Form C o	contacts.							
R10S = S	Super sensitive R1	0 (case and termi	nals E1 & E2 only,	J coil adj. only).					
R = Imm	sealed polycarbor ersion cleanable,			orm C], terminal c	ode 2 & 9 only [std.	PCB]).			
6 = Side 7 = Narro	mounting plate w w (.04" [1.02mm	ith #6-32 stud, sol ] wide) printed cir		als (#3-48 stud not ″ (.33mm) clearar			only).		
Contact	Style & Rating:								
	w	X	Y	Z	Р				
	Single Contact	Single Contact	Single Contact	Bifurcated, Low	Bifurcated Crossbar,				
	V, Q, S & J Coil	Adjustment Only		Level Contacts	Dry Circuit Contacts				
			Typ. 2A Max. 3A	Typ. 100mA Max. 2A	Typ. 1mA Max. 3A				
	Max. 7.5A† Min. 500mA	Max. 5A‡ Min. 500mA	Min. 100mA	Min. 1mA	Min. Dry Circuit				
R10				Min. 1mA X	Min. Dry Circuit X				
R10 R10S	Min. 500mA	Min. 500mA	Min. 100mA		· · ·				
R10S Ratings a † Use ur	Min. 500mA X are at 28VDC or 115 <sup>h</sup> agrounded frame for	Min. 500mA X /AC. Total load must AC loads of 5A or gre	Min. 100mA X X a not exceed 30A per eater. Max. ratings ar	X X relay. e 7.5A at 115VAC an	X				
R10S Ratings a † Use ur ‡ Use ur <b>Number</b> I = 1 pol	Min. 500mA X are at 28VDC or 115 ngrounded frame for of Poles: e.	Min. 500mA X /AC. Total load must AC loads of 5A or gre AC loads of 5A or gre 4 = 4 pc	Min. 100mA X X at not exceed 30A per pater. Max. ratings ar pater. Max. ratings ar	X X relay. e 7.5A at 115VAC and e 5A at 115VAC and	X X X d 4A at 28VDC for coil d				L
R10S Ratings a † Use ur ‡ Use ur Number 1 = 1 pol 2 = 2 pol 3 = 3 pol	Min. 500mA X are at 28VDC or 115 <sup>h</sup> agrounded frame for agrounded frame for of Poles: e. e.	Min. 500mA X /AC. Total load must AC loads of 5A or gre AC loads of 5A or gre A = 4 pc 6 = 6 pc 8 = 8 pc	Min. 100mA X X at not exceed 30A per paater. Max. ratings ar paater. Max. ratings ar pole (not available w	X X relay. e 7.5A at 115VAC an e 5A at 115VAC and ith W contacts).	X X X d 4A at 28VDC for coil d	des S & J.			

# Our authorized distributors are more likely to stock the following items for immediate delivery.

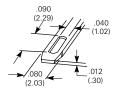
R10-E1X2-24V	R10-E1Y2-J1.0K	R10-E1Y4-V700	R10-E2P4-V185	R10-E2Y4-V185
R10-E1X2-S800	R10-E1Y2-J2.5K	R10-E1Y6-V1.5K	R10-E2P4-V700	R10-E2Y4-V700
R10-E1X2-V185	R10-E1Y2-V15.0K	R10-E1Z2-V185	R10-E2W2-V185	R10S-E1Y2-J5.0K
R10-E1X2-V700	R10-E1Y2-V185	R10-E1Z2-V700	R10-E2X2-V185	R10S-E2Y1-J1.0K
R10-E1X4-115V	R10-E1Y2-V2.5K	R10-E1Z4-V185	R10-E2X2-V700	
R10-E1X4-V185	R10-E1Y2-V700	R10-E1Z4-V2.5K	R10-E2X4-V185	
R10-E1X4-V2.5K	R10-E1Y4-J10.0K	R10-E1Z4-V700	R10-E2X4-V700	
R10-E1X4-V700	R10-E1Y4-V2.5K	R10-E1Z6-V1.5K	R10-E2Y2-V185	
R10-E1X6-V430	R10-E1Y4-V52	R10-E1Z6-V430	R10-E2Y2-V700	
	R10-E1X2-S800 R10-E1X2-V185 R10-E1X2-V700 R10-E1X4-115V R10-E1X4-V185 R10-E1X4-V2.5K R10-E1X4-V700	R10-E1X2-S800     R10-E1Y2-J2.5K       R10-E1X2-V185     R10-E1Y2-V15.0K       R10-E1X2-V700     R10-E1Y2-V185       R10-E1X4-V185     R10-E1Y2-V2.5K       R10-E1X4-V185     R10-E1Y2-V700       R10-E1X4-V185     R10-E1Y2-V700       R10-E1X4-V185     R10-E1Y2-V700       R10-E1X4-V2.5K     R10-E1Y4-J10.0K       R10-E1X4-V700     R10-E1Y4-V2.5K	R10-E1X2-S800     R10-E1Y2-J2.5K     R10-E1Y6-V1.5K       R10-E1X2-V185     R10-E1Y2-V15.0K     R10-E1Z2-V185       R10-E1X2-V700     R10-E1Y2-V185     R10-E1Z2-V700       R10-E1X4-V185     R10-E1Y2-V2.5K     R10-E1Z4-V185       R10-E1X4-V185     R10-E1Y2-V700     R10-E1Z4-V2.5K       R10-E1X4-V185     R10-E1Y2-V700     R10-E1Z4-V2.5K       R10-E1X4-V2.5K     R10-E1Y4-J10.0K     R10-E1Z4-V700       R10-E1X4-V700     R10-E1Y4-V2.5K     R10-E1Z6-V1.5K	R10-E1X2-S800     R10-E1Y2-J2.5K     R10-E1Y6-V1.5K     R10-E2P4-V700       R10-E1X2-V185     R10-E1Y2-V15.0K     R10-E1Z2-V185     R10-E2W2-V185       R10-E1X2-V700     R10-E1Y2-V185     R10-E1Z2-V700     R10-E2X2-V185       R10-E1X4-V185     R10-E1Y2-V2.5K     R10-E1Z4-V185     R10-E2X2-V185       R10-E1X4-V185     R10-E1Y2-V2.5K     R10-E1Z4-V2.5K     R10-E2X2-V700       R10-E1X4-V185     R10-E1Y2-V700     R10-E1Z4-V2.5K     R10-E2X4-V185       R10-E1X4-V2.5K     R10-E1Y4-V1.0.0K     R10-E1Z4-V700     R10-E2X4-V700       R10-E1X4-V700     R10-E1Y4-V2.5K     R10-E1Z4-V700     R10-E2X4-V700

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### **Outline Dimensions**



#### **Solder Terminal Dimensions**



#### С Α в D Type 2 .131 .050 .064 1.251

.131

.040 .013 1.20

Type 7

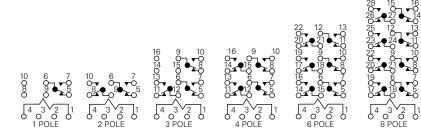
**PC Terminal Dimensions** 

.,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		1.0.0	1.0.0	1.20			
Type 9	.170	.040	.000	1.187	Staggered		
Thickness	.012	012	.012	.013			
Γ	~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~	1		¥			

Ka→ (TO TOP OF CASE)

#### Wiring Diagrams (Bottom Views)

#### **R10 Wiring Diagrams**



# **R10-AC Wiring Diagram**

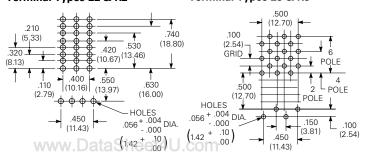
Arrang.

Inline

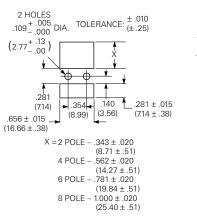
Inline



#### Suggested PC Board Layouts (Component Side of Boards) **Terminal Types E2 & R2 Terminal Types E9 & R9**



#### **Suggested Panel Cutout For Relay or Socket**



#### Mounting Hole Layout For Terminal & Mounting Style 6



.147 ± .002 DIA.  $(3.73 \pm .05)$ 

P&B

#### **R10 Socket & Accessory Information**



**Socket Specifications Contact Material:** Spring brass, tin-plated. Body Material: 2 and 4 pole: polyester. 6 and 8 pole: phenolic. Voltage Drop: 30mV max. @ 10A. Dielectric Strength: 1,000V rms. Insulation Resistance: 10<sup>9</sup> megohms. Max. Current: 10A.

#### Solder or PC Terminal Sockets

Rugged, molded socket body retains floating terminals of either solder or printed circuit pin configuration. PC terminal sockets are offered with pins in either 0.1" (2.54mm) grid or in-line arrangement.

#### **Grounding Provisions** Pre-installed on sockets

Not for use at 5A AC and above. Grounding Strip: Mounting stud of relay contacts grounding strip. Grounding strip is grounded with screw or rivet through round hole in socket.

#### Grounding Terminal (PC sockets only):

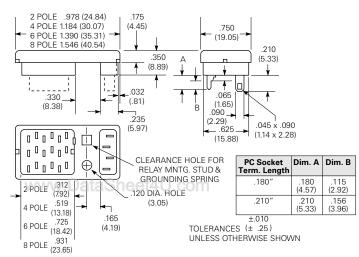
Mounting stud of relay contacts ground terminal through square hole in socket.



#### Caution:

Printed circuit sockets are manufactured with "floating" (loose) terminals. This permits them to align with holes in the circuit board and with the relay terminals. During the mounting and soldering of the socket, vertical float should be eliminated and the terminals seated on the board. (This may be accomplished by inserting a dummy relay in the socket.) Failure to eliminate float may cause fracture of the solder joint or separation of the copper conductor from the printed circuit board when a relay is inserted in the socket after soldering.

#### **Solder & PC Terminal Socket Outline Dimensions**



#### Dimensions are shown for reference purposes only

Dimensions are in inches over (millimeters) unless otherwise specified.

#### Ordering Data - Stock items are boldfaced.

Catalog 1308242

Issued 3-03

Socket Part No.	No. o Poles		Grounding Provision		
Part NO.	Poles	s rerminal	Provision	$\vdash$	
27E125 27E126 27E127 27E162 27E163 27E164	2 4 6 2 4 6	Solder	Strip Strip Strip None None None		
27E128 27E129 27E129 27E254 27E254 27E212 27E213 27E271 27E258 27E193 27E194 27E636	2 4 6 8 2 4 6 8 2 4 6 8 2 4 2 4	PC Stag. .180" long (4.57mm) PC Stag.	Strip Strip Strip None None None Terminal Terminal Strip		
27E637	4	.210" long (5.33mm)	Strip		
27E631 27E632 27E340 <b>27E342</b> <b>27E629</b> 27E630 27E338	2 4 6 2 4 6 4	PC In-line .180″ long (4.57mm)	Strip Strip Strip None None Terminal		
27E633 27E634 27E635	2 4 6	PC In-line .210" long (5.33mm)	Strip Strip Strip		
Hold Dow	ns For Us	e With R10 Socl	cets		
Part No.	No. of Poles				
				1	

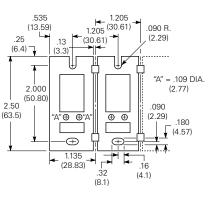
20C249 Wire Hold Down Spring 2 20C250 4 Wire Hold Down Spring 20C251 6 Wire Hold Down Spring 20C266 8 Wire Hold Down Spring 20C259 All Wire Hold Down Strap (PC only) 2 (R10S) Hold Down Spring 20C300 20C301 4 (R10S) Hold Down Spring

e following page for additional sockets & accessories

#### 37D645 – Mounting Strip

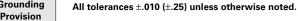
Strip of .060" (1.52mm) aluminum contains ten pre-punched, breakaway mounting plates. Each plate accomodates a 2, 4, 6 or 8 pole solder terminal R10 relay or socket to facilitate chassis- or rack mounting.





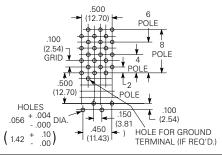
#### Specifications and availability subject to change.

#### www.tycoelectronics.com Technical support: Refer to inside back cover. 707

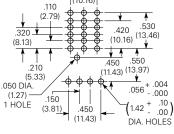


**Suggested Panel Cutout** 2 POLE .343 (8.71) 4 POLE .562 (14.27) 6 POLE .781 (19.84) 8 POLE 1.000 (25.40) .281 (7.14) ۷. 2 HOLES Ð  $\oplus$ .109 DIA. (2.77)140 (3.56).354 .281 ± .015 (8.99) (7.14 ± .38)  $.656 \pm .015$  $(16.66 \pm .38)$ 

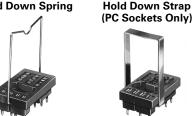
#### Suggested Board Layout (Component Side)



#### Suggested Board Layout (Component Side) (10.16)



#### Hold Down Spring



# R10 Socket & Accessory Information (Continued)

RIU Socket & Accessory Inform	ation (Co	ntinuea		
	Ordering	Data – Sto	ock items are b	oldfaced.
	Socket	No. of	Type of	Grounding
	Part No.	Poles	Terminal	Provision
<b>Bracket Mount Socket</b>	<b>27E317</b>	2	Solder/	Strip
Allows solder terminal relay to mount	27E152	4	Bracket	Strip
flat on a chassis.	Socket	No. of	Dim, A Dim,	B Dim. C

Poles

2

Part No.

27E446

## Flange Mount Socket

Solder terminal socket with tin-plated terminals and grounding strip pre-assembled on .065" (1.65mm) steel mounting plate. Requires only one chassis cutout.



#### **Track Mount Socket**

Provides front wiring, screw terminal connections for R10 family relays. No grounding provision.

2/2/10	-	(36.50)	(46.27)	(23.80)	
27E447	4	1.687 (42.85)	2.072 (52.63)	1.125 (28.58)	
27E448	6	1.875 (47.63)	2.260 (57.40)	1.343 (34.11)	21
Part No.	No. of Poles	Dim. A Nom.	Dim. B Max.	Dim. C Nom.	
27E460	2	1.800 (45.72)	2.230 (56.64)	.200 (5.08)	
27E461	4	2.125 (53.98)	2.830 (71.88)	.337 (8.56)	
27E462	6	2.812 (71.42)	3.830 (97.28)	.494 (12.55)	

Nom.

1.437

Max.

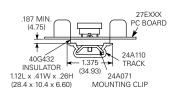
1.822

Min.

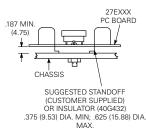
.937

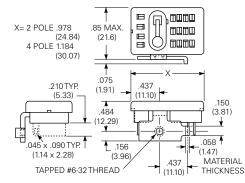
See preceding page for hold down springs.

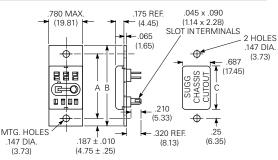
#### Suggested Track Mounting



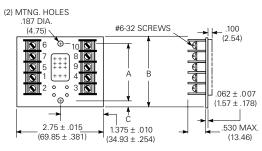
#### **Suggested Chassis Mounting**



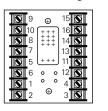




#### 2 Pole **Terminal Wiring Code**



#### 4 Pole **Terminal Wiring Code**



#### 6 Pole **Terminal Wiring Code**

