Sockets & Accessories, R10 Relays

- **Sockets for 2 - 6 pole relays**
- **Solder, PCB or screw terminal sockets**
- **Choice of grounding provision on sockets**
- **Hold down springs**
- **Plates and brackets permit various mounting options**

Approvals
UL E59244, CSA LR15734
Technical data of approved types on request

Technical Data

Socket contact material	Spring brass, tin plated
Socket body material	
2 and 4 pole models	Polyester
6 and 8 pole models	Phenolic
Maximum current	10A
Voltage drop	30mV max. at 10A
Dielectric strength	1,000Vrms
Insulation resistance	10^9 megΩ

Solder and 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.

Strip   **Terminal**

Ordering Code

Product Code	Poles	Terminal type	Grounding provision	Part number
27E125	2	solder terminals	strip	1393143-8
27E126	4			1393143-9
27E127	6			1-1393143-0
27E162	2		none	1-1393143-6
27E163	4			1-1393143-7
27E164	6			1-1393143-8
27E128	2	PCB terminals,.180" (4.57mm) long, staggered layout	strip	1-1393143-1
27E129	4			1-1393143-2
27E130	6			1-1393143-3
27E212	2		none	2-1393143-4
27E213	4			2-1393143-5
27E271	6			3-1393143-1
27E193	2		terminal	2-1393143-1
27E194	4			2-1393143-2
27E636	2	PCB terminals, 210" (5.33mm) long, staggered layout	strip	5-1393143-0
27E637	4			5-1393143-1
27E342	2	PCB terminals,.180" (4.57mm) long, in-line layout	none	3-1393143-6
27E629	4			4-1393143-8
27E630	6			4-1393143-9

All accessories must be ordered separately.

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.
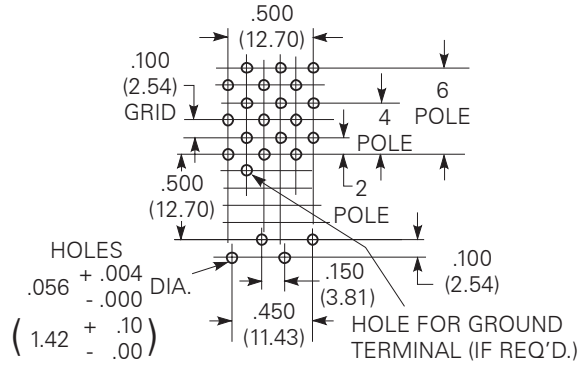
Sockets & Accessories, R10 Relays (Continued)

Dimensions

Solder and PC terminal sockets

2 POLE .978 (24.84)
4 POLE 1.184 (30.07)
6 POLE 1.390 (35.31)

.175 (4.45)

.750 (19.05)

.210 (5.33)

.350 (8.89)

A

.032 (.81)

.330 (8.38)

.235 (5.97)

.065 (1.65)

.090 (2.29)

.625 (15.88)

.045 x .090 (1.14 x 2.28)

B

CLEARANCE HOLE FOR RELAY MNTG. STUD & GROUND SPRING

.120 DIA. HOLE (3.05)

2 POLE .312 (7.92)
4 POLE .519 (13.18)
6 POLE .725 (18.42)

.165 (4.19)

PC Socket Term. Length	Dim. A	Dim. B
.180 in	.180 (4.57)	.115 (2.92)
.210 in	.210 (5.33)	.156 (3.96)

±.010
TOLERANCES (± .25)
UNLESS OTHERWISE SHOWN

PCB layout

Sockets with staggered PC terminals

.500 (12.70)

.100 (2.54) GRID

6 POLE
4 POLE
2 POLE

.500 (12.70)

HOLES .056 +.004 -.000 DIA.

(1.42 +.10 -.00)

.150 (3.81)

.450 (11.43)

.100 (2.54)

HOLE FOR GROUND TERMINAL (IF REQ'D.)

Sockets with inline PC terminals

.210 (5.33)

.320 (8.13)

.110 (2.79)

.400 (10.16)

.530 (13.46)

.420 (10.67)

.550 (13.97)

.450 (11.43)

HOLES .056 +.004 -.000 DIA.

(1.42 +.10 -.00)

PCB layout (top view)

Sockets with solder terminals

.281 (7.14)

2 POLE .343 (8.71)
4 POLE .562 (14.27)
6 POLE .781 (19.84)

2 HOLES .109 DIA. (2.77)

.140 (3.56)

.354 (8.99)

.281 ± .015 (7.14 ± .38)

.656 ± .015 (16.66 ± .38)

Sockets & Accessories, R10 Relays (Continued)

Ordering Code

Product Code	Poles	Terminal type	Mount type	Grounding provision	Part number
27E317	2	solder	bracket	strip	3-1393143-4
27E152	4				1-1393143-5
27E446	2	solder	flange	strip	4-1393143-1
27E447	4				4-1393143-2
27E448	6				4-1393143-3
27E460	2	screw	track/	none	1393837-1
27E461	4		chassis		4-1393143-4
27E462	6				4-1393143-5

All accessories must be ordered separately.

Dimensions

Bracket Mount socket 27E317 and 27E152
Allows solder terminal relay to mount flat on a chassis.

X= 2 POLE .978 (24.84)
4 POLE 1.184 (30.07)

Flange mount socket 27E446, 27E447, 27E448
Solder terminal socket with tin-plated terminals and grounding strip pre-assembled on .065" (1.65mm) steel mounting plate. Requires only one chassis cutout.
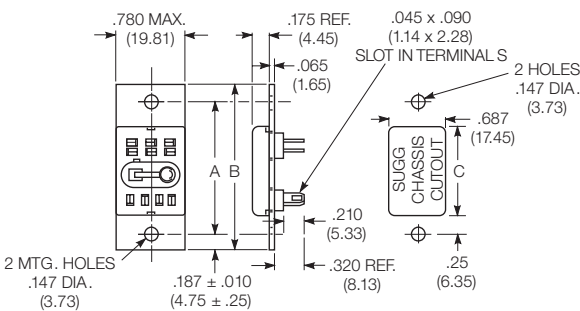
Track mount sockets 27E460, 27E461, 27E462
Provides front wiring, screw terminal connections for R10 family relays. No grounding provision.

2 pole terminal wiring code

Socket	Poles	Dim A	Dim B	Dim C
27E446	2	1.437 (36.50)	1.822 (46.27)	.937 (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)

4 pole terminal wiring code   6 pole terminal wiring code

Suggested track mounting   Suggested chassis mounting