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With the principle of "Quality Parts, Customers Priority, Honest Operation, and Considerate Service", our business mainly focus on the distribution of electronic components. Line cards we deal with include Microchip, ALPS, ROHM, Xilinx, Pulse, ON, Everlight and Freescale. Main products comprise IC, Modules, Potentiometer, IC Socket, Relay, Connector. Our parts cover such applications as commercial, industrial, and automotives areas.

We are looking forward to setting up business relationship with you and hope to provide you with the best service and solution. Let us make a better world for our industry!



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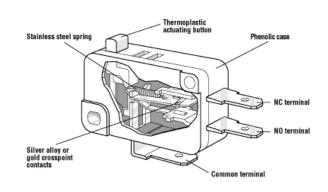


MINIATURE Switch

E21-E36 Series

Not recommended for new designs Please review our D4 series http://www.cherrycorp.com/english/switches/miniature/d4.htm





Features

8 Contact Ratings DC ratings optional	Standard or light force versions available		
High temperature versions optional	Agency approved long life versions optional		

Switch	According to UL 1054			
Series	Nominal Load	Electrical Life at Rated Load		
E21	0.1A 125 VAC (0.25A, 30VDC optional)	6000**		
E22	3A 125/250 VAC, 1/10 HP 250 VAC (0.1A, 125VDC optional)	6000		
E23	5A 1/4 HP, 125/250 VAC	6000		
E31	1A 125 VAC	6000		
E33	10A ½ HP 125/250 VAC (6A 30VDC optional)	6000**		
E34	15A 1/2 HP 125/250 VAC	6000*		
E35	20.1A ½ HP 125/250 VAC	6000		
E36	25A 125/250 VAC; 1 HP 125 VAC, 2 HP 250 VAC	6000		

Technical Specifications

Temperature -40°C to 85°C

Rating: (130°C and 150°C optional. Not

available on E36. Contact factory for

special part numbers.)

Flammability UL94HB

Rating:

Mounting: Recommended screw: #4-40 round

head, UL approved.

Recommended torque: 3 inch lbs. max

UL File No.: E23301

RoHS Compliant Specifications subject to change

Material Specifications

Case: General Purpose Phenolic

Common Terminal: Silver Plated Brass (E21, E22, E23, E31, E33, E34, E35)

Silver Plated Copper (E36)

NO & NC Terminal: Brass (E21, E22, E23, E31, E33, E34, E35)

Copper (E36)

Moving Blade: Brass (E21, E33, E23)

Silver Plated Beryllium Copper (E31, E33, E34, E35, E36)

Actuating Button Thermoplastic Acetal

Auxiliary Actuator: Cold Rolled Steel (Nickel Plated)

(E21 and E22 use Aluminum)

Contacts: Silver Alloy

Gold Crosspoint: E21 and E31

Fine Silver: E22





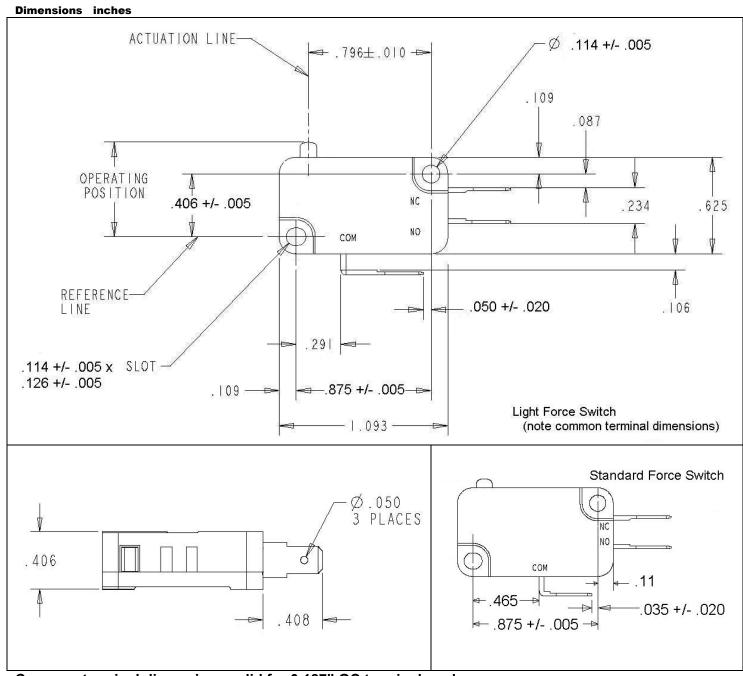






MINIATURE

E21-E36 Series



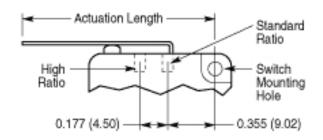
Common terminal dimensions valid for 0.187" QC terminals only

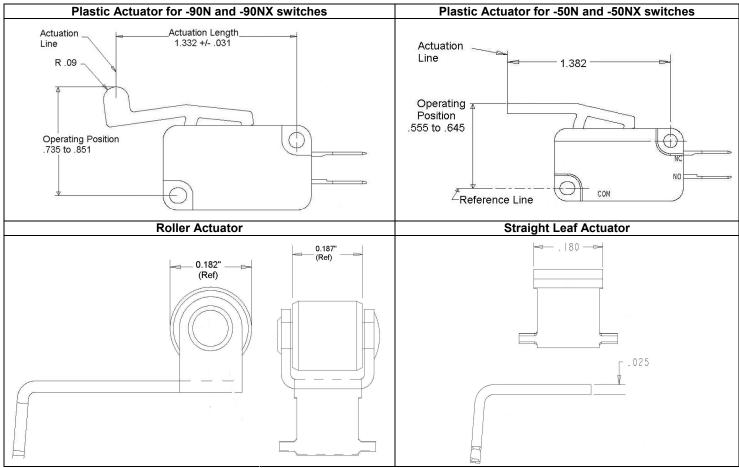


E21-E36 Series

Actuators

Standard type integral hinged lever and roller actuators are available in choice of 2 mounting positions. Actuation lengths are dimensioned from the centerline of the switch mounting hole as shown.





Note: Plastic levers only available on 85°C rated switches



E21-E36 Series

Actuator Specifications

Item Number	Actuator	UL Rating	Maximum Operating Force (grams)	Maximum Pretravel inches (mm)	Operating Point* inches (mm)	Minimum Overtravel inches (mm)	Max. Movement Differential inches (mm)	Actuation Length**
0E2100AX		0.1A, 125VAC (0.254, 30V <i>D</i> C optional	15	0.047 (1.19)	0.578 +/- 0.020 (14.68 +/- 0.51)	.050 (1.27)	0.010 (0.25)	N/A
0E2100K0		0.1A, 125VAC (0.25A, 30VDC optional	75	0.047 (1.19)	0.806 +/- 0.030 (20.47 +/- 0.76)	0.040 (1.02)	0.010 (0.25)	0.810 (20.57)
0E2150H0		0.1A, 125VAC (0.25A, 30VDC optional	35	0.125 (3.18)	0.600 +/- 0.045 (15.24 +/- 0.51)	0.085 (2.16)	0.030 (0.76)	1.40 (35.56)
0E2200AX	(1116)	3A, 125/250VAC 1/10HP, 250VAC (0.14, 125VDC optional)	15	0.047 (1.19)	0.578 +/- 0.020 (14.68 +/- 0.51)	.050 (1.27)	0.010 (0.25)	N/A
0E2200K0		3A, 125/250VAC 1/10HP, 250VAC (0.14, 125VDC optional)	75	0.047 (1.19)	0.806 +/- 0.030 (20.47 +/- 0.76)	0.040 (1.02)	0.010 (0.25)	0.810 (20.57)
0E2250HX		3A, 125/250VAC 1/10HP, 250VAC (0.1A, 125VDC optional)	8	0.125 (3.18)	0.600 +/- 0.045 (15.24 +/- 0.51)	0.085 (2.16)	0.030 (0.76)	1.40 (35.56)
0E2250K0		3A, 125/250VAC 1/10HP, 250VAC (0.14, 125VDC optional)	35	0.125 (3.18)	0.806 +/- 0.045 (20.47 +/- 1.14)	0.085 (2.16)	0.030 (0.76)	1.34 (34.04)
0E2250KL		3A, 125/250VAC 1/10HP, 250VAC (0.1A, 125V2C optional)	25	0.200 (5.08)	0.806 +/- 0.075 (20.47 +/- 1.91)	0.120 (3.05)	0.040 (1.02)	1.516 (38.51)
0E2255HX		3A, 125/250VAC 1/10HP, 250VAC (0.14, 125V/2C optional)	- 4	0.300 (7.62)	0.600 +/- 0.100 (15.24 +/- 2.54)	0.187 (4.75)	0.065 (1.65)	2.757 (70.03)
0E2285HX		3A, 125/250VAC 1/10HP, 250VAC (0.1A, 125VDC optional)	2	0.500 (12.70)	0.600 +/- 0.175 (15.24 +/- 4.45)	0.312 (7.92)	0.100 (2.54)	2.932 (74.47)
0E2300A0		5A, 1/4HP, 125/250VAC	170	0.047 (1.19)	0.578 +/- 0.020 (14.68 +/- 0.51)	.050 (1.27)	0.010 (0.25)	N/A
0E2300K0		5A, 1/4HP, 125/250VAC	170	0.047 (1.19)	0.806 +/- 0.030 (20.47 +/- 0.76)	0.040 (1.02)	0.010 (0.25)	0.810 (20.57)
0E2350H0		5A, 1/4HP, 125/250VAC	85	0.125 (3.18)	0.600 +/- 0.045 (15.24 +/- 0.51)	0.085 (2.16)	0.030 (0.76)	1.40 (35.56)
0E2350K0		5A, 1/4HP, 125/250VAC	86	0.125 (3.18)	0.806 + 0.045 (20.47 +/- 1.14)	0.085 (2.16)	0.030 (0.76)	1.34 (34.04)
0E2355HX		5A, 1/4HP, 125/250VAC	10	0.300 (7.62)	0.600 +/- 0.100 (15.24 +/- 2.54)	0.187 (4.75)	0.065 (1.65)	2.757 (70.03)
0E2385HX		5A, 1/4HP, 125/250VAC	6	0.500 (12.70)	0.600 +/- 0.175 (15.24 +/- 4.45)	0.312 (7.92)	0.100 (2.54)	2.932 (74.47)
0E3300A0		10A, 1/2HP, 125/250VAC (6A, 30VDC optional)	285	0.047 (1.19)	0.578 +/- 0.020 (1 4.68 +/- 0.51)	.050 (1.27)	0.010 (0.25)	ΝΆ
0E3300AX		10A, 1/2HP, 125/250VAC (6A, 30VDC optional)	75	0.047 (1.19)	0.578 +/- 0.020 (14.68 +/- 0.51)	.050 (1.27)	0.010 (0.25)	ΝΆ
0E3300K0		10A, 1/2HP, 125/250VAC (6A, 30VDC optional)	285	0.047 (1.19)	0.806 +/- 0.030 (20.47 +/- 0.76)	0.040 (1.02)	0.010 (0.25)	0.810 (20.57)
0E3350H0		10A, 1/2HP, 125/250VAC (6A, 30VDC optional)	144	0.125 (3.18)	0.600 +/- 0.045 (15.24 +/- 0.51)	0.085 (2.16)	0.030 (0.76)	1.40 (35.56)
0E3350HL		10A, 1/2HP, 125/250VAC (6A, 30V/DC optional)	86	0.220 (5.59(0.600 +/- 0.075 (15.24 +/- 1.91)	0.130 (3.30)	0.040 (1.02)	1.580 (40.13)
0E3350K0		10A, 1/2HP, 125/250VAC (6A, 30VDC optional)	144	0.125 (3.18)	0.806 +,- 0.045 (20.47 +/- 1.14)	0.085 (2.16)	0.030 (0.76)	1.34 (34.04)
0E3385HX		10A, 1/2HP, 125/250VAC (6A, 30V/DC optional)	10	0.500 (12.70)	0.600 +/- 0.175 (15.24 +/- 4.45)	0.312 (7.92)	0.100 (2.54)	2.932 (74.47)
0E340QA0	11110	15A, 1/2HP, 125/250VAC	400	0.047 (1.19)	0.578 +/- 0.020 (1 4.68 +/- 0.51)	.050 (1.27)	0.010 (0.25)	N/A
0E3400K0		15A, 1/2HP, 125/250VAC	400	0.047 (1.19)	0.806 +/- 0.030 (20.47 +/- 0.76)	0.040 (1.02)	0.010 (0.25)	0.810 (20.57)
0E3450HX		15A, 1/2HP, 125/250VAC	50	0.125 (3.18)	0.600 +/- 0.045 (15.24 +/- 0.51)	0.085 (2.16)	0.030 (0.76)	1.40 (35.56)
0E3450K0		15A, 1/2HP, 125/250VAC	200	0.125 (3.18)	0.806 + 0.045 (20.47 +/- 1.14)	0.085 (2.16)	0.030 (0.76)	1.34 (34.04)
0E3455HX		15A, 1/2HP, 125/250VAC	22	0.300 (7.62)	0.600 +/- 0.100 (15.24 +/- 2.54)	0.187 (4.75)	0.065 (1.65)	2.757 (70.03)
0E3485HX		15A, 1/2HP, 125/250VAC	13	0.500 (12.70)	0.600 +/- 0.175 (15.24 +/- 4.45)	0.312 (7.92)	0.100 (2.54)	2.932 (74.47)

^{*} Measured above reference line. Refer to dimensional drawing.

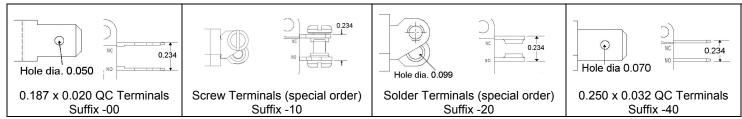
** Actuator tolerance +/- 0.031" (0.787).

NOTE: E35 and E36 available in light force only.



E21-E36 Series http://www.cherrycorp.com/english/switches/miniature/d4.htm

Terminals



Note: 0.187" Quick Connect terminals are standard i.e. part number E21-00A To order 0.250" Quick Connect terminals 'add' the suffix to the part number, i.e. E21-40A

Circuitry

	Standard Force			Light Force			
Terminal	SPDT	SPST NO	SPST NC	SPDT	SPST NO	SPST NC	
QC 0.187"	-00A	-01A	-02A	-00AX	-01AX	-02AX	
Screw	-10A	-11A	-12A	-10AX	-11AX	-12AX	
Solder	-20A	-21A	-22A	-20AX	-21AX	-22AX	
QC 0.250"	-40A	-41A	-42A	-40AX	-41AX	-42AX	

Note: 1. SPDT contact arrangement is standard. In general, normally open switches may be ordered by changing the suffix number from -00 to -01 and normally closed may be ordered by changing the suffix from -00 to -02. See above for assistance.

E35 and E36 only available as light force with 0.250" QC terminals.

Ordering Information

- Select the contact rating prefix you need (E21-E36).
- Combine the prefix with the corresponding terminal configuration. For example part number E21-00H will provide you with a gold crosspoint miniature switch with 0.187" QC terminals and a straight lever with a 0.865" actuation length
- To order a normally open version simply 'add 1' to the suffix to obtain E21-01H and normally closed 'add 2' for part number E21-02H.
- To order a E21-00H with .screw terminals, 'add' the new terminal code (-10) to the part number E21-10H will be the resulting part number for a miniature switch with screw terminals and a straight lever with a 0.865" actuation length.

Contact

Call, fax or visit our Website for more information.

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Technical data relates to product specifications only. Features may differ from those described. Only drawings combined with product specifications shall be deemed

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