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

| $\bullet 8$ Contact Ratings DC ratings optional | $\bullet$ Standard or light force versions available |
| :--- | :--- |
| $\bullet$ High temperature versions optional | $\bullet$ Agency approved long life versions optional |


| Electrical Ratings and Operating Life |  |  |
| :---: | :---: | :---: |
| Switch Series | According to UL 1054 |  |
|  | 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 11/4 HP, 125/250 VAC | 6000 |
| E31 | 1 A 125 VAC | 6000 |
| E33 | 10A $1 / 2 \mathrm{HP} 125 / 250$ VAC (6A 30VDC optional) | 6000** |
| E34 | 15A 1/2 HP 125/250 VAC | 6000 * |
| E35 | 20.1A 1/2 HP 125/250 VAC | 6000 |
| E36 | 25A 125/250 VAC; 1 HP 125 VAC, 2 HP 250 VAC | 6000 |

* Indicates 100K UL Life available on AC versions optional. ${ }^{* *}$ Indicates 100K UL Life available on AC and DC versions optional Contact Factory for new part number.


## Technical Specifications

| Temperature | $-40^{\circ} \mathrm{C}$ to $85^{\circ} \mathrm{C}$ |
| :--- | :--- |
| Rating: | $\left(130^{\circ} \mathrm{C}\right.$ and $150^{\circ} \mathrm{C}$ optional. Not <br> available on E36. Contact factory for <br> special part numbers.) |
| Flammability  <br> Rating:  <br> Mounting: UL94HB <br>  Recommended screw: \#4-40 round <br> head, UL approved. <br> Recommended torque: 3 inch Ibs. max$.$Rac |  |

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)
Brass (E21, E33, E23)
Silver Plated Beryllium Copper (E31, E33, E34, E35, E36)
Thermoplastic Acetal
Cold Rolled Steel (Nickel Plated)
(E21 and E22 use Aluminum)
Silver Alloy
Gold Crosspoint: E21 and E31
Fine Silver: E22

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## E21-E36 Series

Dimensions inches


Common terminal dimensions valid for 0.187" QC terminals only

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## 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 $85^{\circ} \mathrm{C}$ rated switches

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## E21-E36 Series

## Actuator Specifications



* Measured above reference line. Refer to dimensional drawing.
*Actuator tolerance $+1-0.031$ " (0.787)
NOTE: E35 and E36 available in light force only.


## Terminals



Note: $0.187^{\prime \prime}$ 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" | $-00 A$ | $-01 A$ | $-02 A$ | $-00 A X$ | $-01 A X$ | $-02 A X$ |
| Screw | $-10 A$ | $-11 A$ | $-12 A$ | $-10 A X$ | $-11 A X$ | $-12 A X$ |
| Solder | $-20 A$ | $-21 A$ | $-22 A$ | $-20 A X$ | $-21 A X$ | $-22 A X$ |
| QC 0.250" | $-40 A$ | $-41 A$ | $-42 A$ | $-40 A X$ | $-41 A X$ | $-42 A X$ |

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

## Ordering Information

1. Select the contact rating prefix you need (E21-E36).
2. 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
3. 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.
4. To order a $\mathrm{E} 21-00 \mathrm{H}$ with .screw terminals, 'add' the new terminal code $(-10)$ to the part number - $\mathrm{E} 21-10 \mathrm{H}$ 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.
ZF Electronics Corporation
11200 88th Avenue
Pleasant Prairie, WI 53158
Phone: 262.942.6500
Web: www.cherrycorp.com
Email: cep sales@z.com
Fax: 262.942.6566

The manufacturer accepts no The manufacturer accepts no liability for errors or non-availability, and reserves the right to change specifications without prior notice.
Technical data relates to product specifications only. Features may differ from those described. Only drawings combined with product specifications shall be deemed binding.

