



# Emergency Stop Control Stations

## Features

- 3-pole positive guided contacts
- Plastic housings (IP67) or stainless steel 316 housings (IP69K/NEMA 6)
- 40mm twist-to-release mushroom head operator
- Conformance to ISO 13850, IEC 60947-5-1 and IEC 60947-5-5
- 2 conduit entries (all entries sealed)
- UL File E365665
- Lid safety trip mechanism ensures that safety contacts will open if the lid is removed
- Models available with button protection guard and padlock holes
- Includes one tamper-proof T20 Torx bit for stainless steel versions



| 3-Pole Emergency Stop Control Stations |                                                                    |                |                |                               |          |                     |
|----------------------------------------|--------------------------------------------------------------------|----------------|----------------|-------------------------------|----------|---------------------|
| Part Number                            | Housing Type                                                       | Contacts       | Wiring Diagram | Conduit Entry                 | Price    | Drawing Link        |
| <a href="#">ES-P-230001</a>            | Plastic                                                            | 2 N.C., 1 N.O. | Figure 1       | Knockout (2) M20 (2) 1/2" NPT | \$38.50  | <a href="#">PDF</a> |
| <a href="#">ES-P-230002</a>            |                                                                    | 3 N.C.         | Figure 2       |                               | \$38.50  | <a href="#">PDF</a> |
| <a href="#">ES-SS-231002</a>           | Stainless steel 316                                                | 2 N.C., 1 N.O. | Figure 1       | (2) 1/2" NPT                  | \$175.00 | <a href="#">PDF</a> |
| <a href="#">ES-SS-231004</a>           |                                                                    | 3 N.C.         | Figure 2       |                               | \$175.00 | <a href="#">PDF</a> |
| <a href="#">ES-SSP-231006</a>          | Stainless steel 316 with button protection guard and padlock holes | 2 N.C., 1 N.O. | Figure 1       | (2) 1/2" NPT                  | \$186.00 | <a href="#">PDF</a> |
| <a href="#">ES-SSP-231008</a>          |                                                                    | 3 N.C.         | Figure 2       |                               | \$186.00 | <a href="#">PDF</a> |



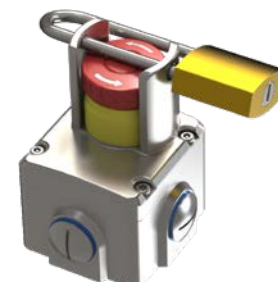
**[ES-P-230001](#)**



**[ES-SS-231002](#)**



**[ES-SSP-231006](#)**



Type ESL-SSLP with button protection guard and padlock holes

(Padlock hole diameter 1/4". Padlock shaft must exceed 2" closed)

| Safety Classification and Reliability Data |                                                                                                  |
|--------------------------------------------|--------------------------------------------------------------------------------------------------|
| <b>Mechanical Reliability B10d</b>         | 1.5 x 10 <sup>6</sup> operations at 100mA load                                                   |
| <b>ISO 13849-1</b>                         | Up to PLe depending upon system architecture                                                     |
| <b>EN 62061</b>                            | Up to SIL3 depending upon system architecture                                                    |
| <b>Safety Data - Annual Usage</b>          | 8 cycles per hour / 24 hours per day / 365 days                                                  |
| <b>PFHd</b>                                | < 1.0 x 10 <sup>-7</sup>                                                                         |
| <b>Proof Test Interval (Life)</b>          | 21 years                                                                                         |
| <b>MTTFd</b>                               | 214 years                                                                                        |
| Electrical and General Specifications      |                                                                                                  |
| <b>Enclosure / Cover</b>                   | Polyester or Stainless Steel 316                                                                 |
| <b>IP Rating / NEMA</b>                    | IP67 Plastic / IP69K Stainless Steel / NEMA 6                                                    |
| <b>Mounting</b>                            | (4) M4                                                                                           |
| <b>Mounting Position</b>                   | Any                                                                                              |
| <b>Conduit Entries</b>                     | (2) 1/2" NPT for Stainless Steel housing<br>Knockout (2) M20 / (2) 1/2" for Plastic housing      |
| <b>Torque Settings</b>                     | Mounting: M4 4.0 N·m<br>Lid: T20 Torx M4 1.5 N·m<br>Terminals: 1.0 N·m                           |
| <b>Ambient Temperature</b>                 | -25 to +80°C (-13 to +176°F)                                                                     |
| <b>Vibration Resistance</b>                | 0.35 mm @ 10-500 Hz                                                                              |
| <b>Shock Resistance</b>                    | 15g @ 11ms                                                                                       |
| <b>Weight</b>                              | Plastic: 250g (0.55 lb)<br>Stainless Steel: 1000g (2.20 lb)                                      |
| <b>Contact Type</b>                        | IEC 947-5-1 double break type Zb<br>Snap action up to 3 N.C. (positive break) 1 N.O. (Auxiliary) |
| <b>Contact Material</b>                    | Silver                                                                                           |
| <b>Termination</b>                         | Clamp up to 2.5 mm <sup>2</sup> conductors                                                       |
| <b>IEC / NEMA Contact Rating</b>           | Utilization category: AC15 / A300                                                                |
| <b>Operational Rating</b>                  | 240VAC 3A / 120VAC 6A                                                                            |
| <b>Thermal Current (Ith)</b>               | 10A                                                                                              |
| <b>Rated Insulation Voltage (Ui)</b>       | 500V                                                                                             |
| <b>Withstand Voltage (Uimp)</b>            | 2500V                                                                                            |
| <b>Short Circuit Overload Protection</b>   | Fuse externally 10A (fuse type FF)                                                               |
| <b>Approvals</b>                           | IEC 60947-5-1, IEC 60947-5-5, EN62061, UL508, ISO13850, ISO13849-1                               |

Note: To obtain the most current agency approval information, see the Agency Approval Checklist section on the specific part number's web page.

# Emergency Stop Control Stations

## Wiring Diagrams

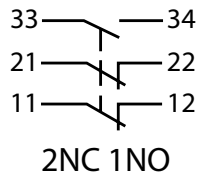


Figure 1

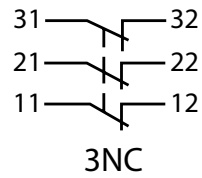


Figure 2



# Emergency Stop Control Stations

## Features

- 4-pole positive guided contacts
- Stainless Steel 316 housings (IP69K/NEMA 6)
- 40mm twist-to-release mushroom head operator
- Conformance to ISO 13850,
- IEC 60947-5-1 and IEC 60947-5-5
- 3 conduit entries (all entries sealed)
- Emergency stop legend plate included
- UL File E365665
- Lid safety trip mechanism ensures that safety contacts will open if the lid is removed
- Models available with button protection guard and padlock holes
- Models available with 2-color LED
- Includes one tamper-proof T20 Torx bit for stainless steel versions



**ESL-SS-232002**



**ESL-SSP-232010**



**ESL-SSL-232018-AS**



**ESL-SSLP-232024-AS**

| 4-Pole Emergency Stop Control Stations    |                                                                                     |                |                |               |          |                            |
|-------------------------------------------|-------------------------------------------------------------------------------------|----------------|----------------|---------------|----------|----------------------------|
| Part Number                               | Housing Type                                                                        | Contacts       | Wiring Diagram | Conduit Entry | Price    | Drawing Link               |
| <a href="#"><u>ESL-SS-232002</u></a>      | Stainless steel 316                                                                 | 2 N.C., 2 N.O. | Figure 1       | (3) ½" NPT    | \$184.00 | <a href="#"><u>PDF</u></a> |
| <a href="#"><u>ESL-SS-232004</u></a>      |                                                                                     | 3 N.C., 1 N.O. | Figure 2       |               | \$184.00 | <a href="#"><u>PDF</u></a> |
| <a href="#"><u>ESL-SS-232006</u></a>      |                                                                                     | 4 N.C.         | Figure 3       |               | \$184.00 | <a href="#"><u>PDF</u></a> |
| <a href="#"><u>ESL-SSP-232010</u></a>     | Stainless steel 316 with protection guard and padlock holes                         | 2 N.C., 2 N.O. | Figure 1       |               | \$194.00 | <a href="#"><u>PDF</u></a> |
| <a href="#"><u>ESL-SSP-232012</u></a>     |                                                                                     | 3 N.C., 1 N.O. | Figure 2       |               | \$194.00 | <a href="#"><u>PDF</u></a> |
| <a href="#"><u>ESL-SSP-232014</u></a>     |                                                                                     | 4 N.C.         | Figure 3       |               | \$194.00 | <a href="#"><u>PDF</u></a> |
| <a href="#"><u>ESL-SSL-232018-AS</u></a>  | Stainless steel 316 with 2-color 24VDC LED (steady green, steady red)               | 2 N.C., 2 N.O. | Figure 1       |               | \$222.00 | <a href="#"><u>PDF</u></a> |
| <a href="#"><u>ESL-SSL-232020-AS</u></a>  |                                                                                     | 3 N.C., 1 N.O. | Figure 2       |               | \$222.00 | <a href="#"><u>PDF</u></a> |
| <a href="#"><u>ESL-SSL-232018-BS</u></a>  | Stainless steel 316 with 2-color 110VAC LED (steady green, steady red)              | 2 N.C., 2 N.O. | Figure 1       |               | \$227.00 | <a href="#"><u>PDF</u></a> |
| <a href="#"><u>ESL-SSL-232020-BS</u></a>  |                                                                                     | 3 N.C., 1 N.O. | Figure 2       |               | \$227.00 | <a href="#"><u>PDF</u></a> |
| <a href="#"><u>ESL-SSLP-232024-AS</u></a> | Stainless steel 316 with 2-color 24VDC LED and protection guard with padlock holes  | 2 N.C., 2 N.O. | Figure 1       |               | \$233.00 | <a href="#"><u>PDF</u></a> |
| <a href="#"><u>ESL-SSLP-232026-AS</u></a> |                                                                                     | 3 N.C., 1 N.O. | Figure 2       |               | \$233.00 | <a href="#"><u>PDF</u></a> |
| <a href="#"><u>ESL-SSLP-232024-BS</u></a> | Stainless 316 steel with 2-color 110VAC LED and protection guard with padlock holes | 2 N.C., 2 N.O. | Figure 1       |               | \$238.00 | <a href="#"><u>PDF</u></a> |
| <a href="#"><u>ESL-SSLP-232026-BS</u></a> |                                                                                     | 3 N.C., 1 N.O. | Figure 2       |               | \$238.00 | <a href="#"><u>PDF</u></a> |



Type ESL-SSLP with button protection guard and padlock holes

(Padlock hole diameter 1/4". Padlock shaft must exceed 2" closed)

# Emergency Stop Control Stations

| Safety Classification and Reliability Data             |                                                                                                  |
|--------------------------------------------------------|--------------------------------------------------------------------------------------------------|
| <b>Mechanical Reliability B10d</b>                     | 1.5 x 10 <sup>6</sup> operations at 100mA load                                                   |
| <b>ISO 13849-1</b>                                     | Up to PLe depending upon system architecture                                                     |
| <b>EN 62061</b>                                        | Up to SIL3 depending upon system architecture                                                    |
| <b>Safety Data - Annual Usage</b>                      | 8 cycles per hour / 24 hours per day / 365 days                                                  |
| <b>PFHd</b>                                            | < 1.0 x 10 <sup>-7</sup>                                                                         |
| <b>Proof Test Interval (Life)</b>                      | 21 years                                                                                         |
| <b>MTTFd</b>                                           | 214 years                                                                                        |
| Electrical and General Specifications                  |                                                                                                  |
| <b>Enclosure / Cover</b>                               | Stainless Steel 316                                                                              |
| <b>IP Rating / NEMA</b>                                | IP69K / NEMA 6                                                                                   |
| <b>Mounting</b>                                        | (4) M4                                                                                           |
| <b>Mounting Position</b>                               | Any                                                                                              |
| <b>Conduit Entries</b>                                 | (3) ½" NPT                                                                                       |
| <b>Torque Settings</b>                                 | Mounting: M4 4.0 N·m    Lid: T20 Torx M4 1.5 N·m    Terminals: 1.0 N·m                           |
| <b>Ambient Temperature</b>                             | -25 to +80°C (-13°F to +176°F)                                                                   |
| <b>Vibration Resistance</b>                            | 0.35 mm @ 10-500 Hz                                                                              |
| <b>Shock Resistance</b>                                | 15g @ 11ms                                                                                       |
| <b>Weight</b>                                          | 820g (1.81 lb)                                                                                   |
| <b>Contact Type</b>                                    | IEC 947-5-1 double break type Zb<br>Snap action up to 4 N.C. (positive break) 2 N.O. (Auxiliary) |
| <b>Contact Material</b>                                | Silver                                                                                           |
| <b>Termination</b>                                     | Clamp up to 2.5 mm <sup>2</sup> conductors                                                       |
| <b>IEC / NEMA Contact Rating</b>                       | Utilization category: AC15 / A300                                                                |
| <b>Operational Rating</b>                              | 240VAC 3A / 120VAC 6A                                                                            |
| <b>Thermal Current (<i>I<sub>th</sub></i>)</b>         | 10A                                                                                              |
| <b>Rated Insulation Voltage (<i>U<sub>i</sub></i>)</b> | 500V                                                                                             |
| <b>Withstand Voltage (<i>U<sub>imp</sub></i>)</b>      | 2500V                                                                                            |
| <b>Short Circuit Overload Protection</b>               | Fuse externally 10A (fuse type FF)                                                               |
| <b>Approvals</b>                                       | IEC 60947-5-1, IEC 60947-5-5, EN62061, UL508, ISO13850, ISO13849-1                               |

## Wiring Diagrams

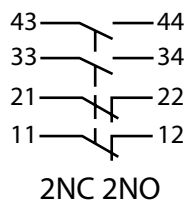


Figure 1

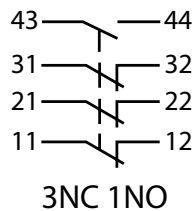


Figure 2

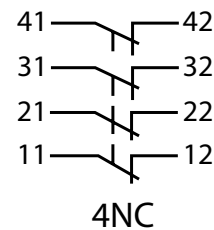


Figure 3

**LED Wiring Note:** Black (or Terminal 2) is 0V (or Neutral for 110V AC versions). When power is applied to the Red wire (or Terminal 1), the LED will illuminate Red. When power is applied to the Green wire (or Terminal 3), the LED will illuminate Green.