



# 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> |



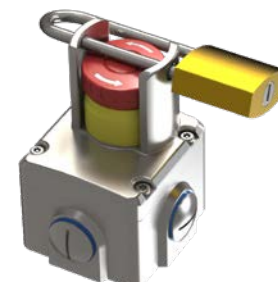
**[ES-P-230001](#)**



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



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



Type ESL-SSLP with button protection guard and padlock holes

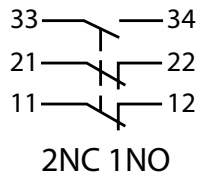
(Padlock hole diameter 1/4". Padlock shaft must exceed 2" closed)

| 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                               |

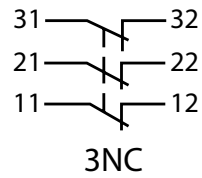
Note: To obtain the most current agency approval information, see the Agency Approval Checklist section on the specific part number's web page.

# Emergency Stop Control Stations

## Wiring Diagrams



**Figure 1**



**Figure 2**