



# 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



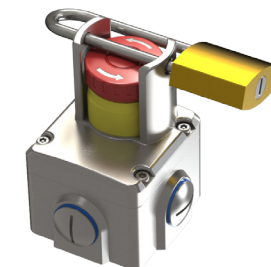
ES-P-230001



ES-SS-231002



ES-SSP-231006



Type ES-SSP with button protection guard and padlock holes

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

3-Pole Emergency Stop Control Stations					
Part Number	Housing Type	Contacts	Wiring Diagram	Conduit Entry	Price
ES-P-230001	Plastic	2NC 1NO	Figure 1	Knockout (2) M20 (2) 1/2" NPT	\$31.00
ES-P-230002		3NC	Figure 2		\$31.00
ES-SS-231002	Stainless steel 316	2NC 1NO	Figure 1	(2) 1/2" NPT	\$136.00
ES-SS-231004		3NC	Figure 2		\$127.00
ES-SSP-231006	Stainless steel 316 with button protection guard and padlock holes	2NC 1NO	Figure 1	(2) 1/2" NPT	\$138.00
ES-SSP-231008		3NC	Figure 2		\$138.00

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, Knockout (2) M20 / (2) 1/2" for Plastic housing
<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°C 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>	Plastic: 250g (0.55 lb) Stainless Steel: 1000g (2.20 lb)
<b>Contact Type</b>	IEC 947-5-1 double break type Zb Snap action up to 3NC (positive break) 1NO (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<sub>th</sub>)</b>	10A
<b>Rated Insulation Voltage (U<sub>i</sub>)</b>	500V
<b>Withstand Voltage (U<sub>imp</sub>)</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

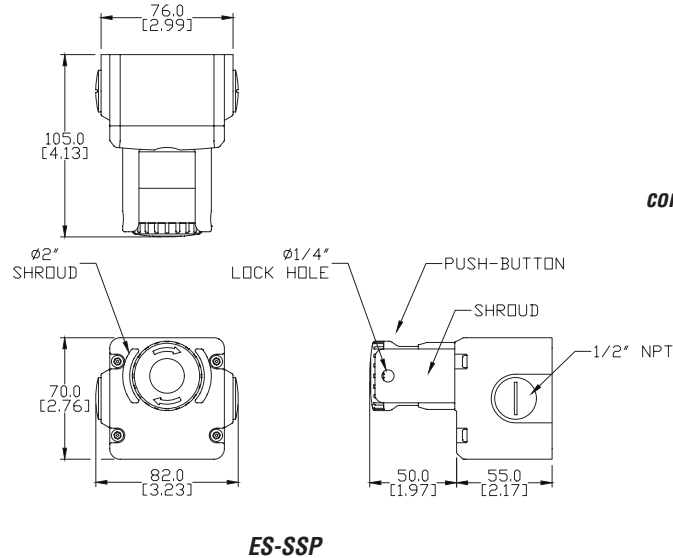
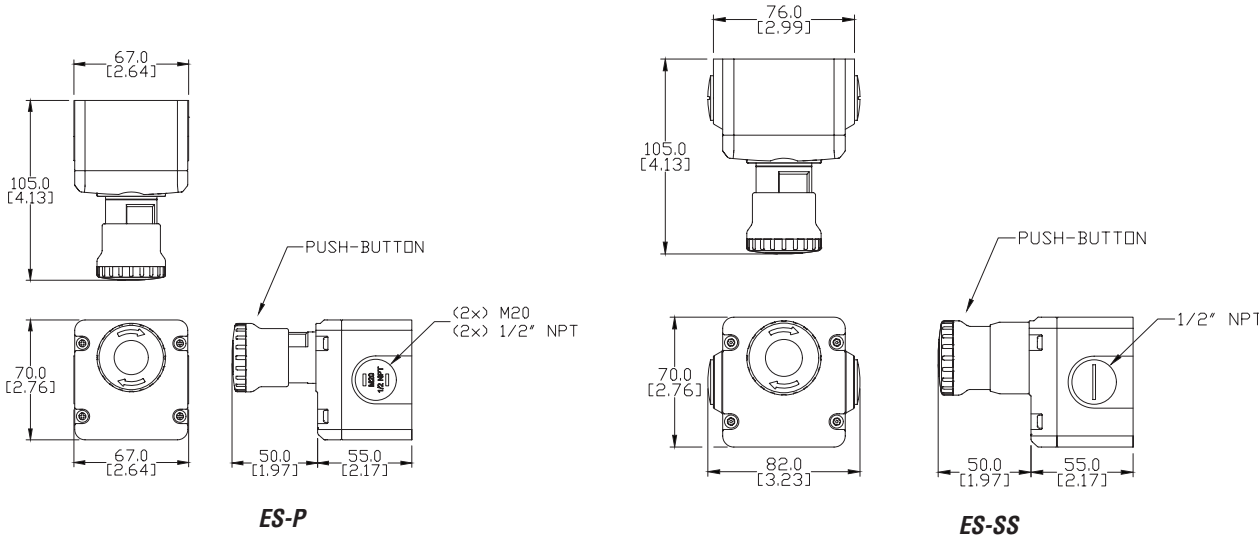
Note: To obtain the most current agency approval information, see the Agency Approval Checklist section on the specific part number's web page.

# Emergency Stop Control Stations



## Dimensions

mm [inches]



Please see our website [www.AutomationDirect.com](http://www.AutomationDirect.com) for complete engineering drawings. Dimensions are approximate. Not for construction purposes.

## Wiring Diagrams

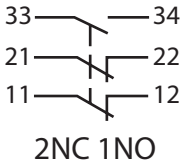


Figure 1

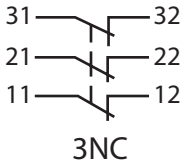


Figure 2



# 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



4-Pole Emergency Stop Control Stations					
Part Numbers	Housing Type	Contacts	Wiring Diagram	Conduit Entry	Price
ESL-SS-232002	Stainless steel 316	2NC 2NO	Figure 1	(3) 1/2" NPT	\$138.00
ESL-SS-232004		3NC 1NO	Figure 2		\$137.00
ESL-SS-232006		4NC	Figure 3		\$138.00
ESL-SSP-232010	Stainless steel 316 with protection guard and padlock holes	2NC 2NO	Figure 1		\$143.00
ESL-SSP-232012		3NC 1NO	Figure 2		\$143.00
ESL-SSP-232014		4NC	Figure 3		\$143.00
ESL-SSL-232018-AS	Stainless steel 316 with 2-color 24VDC LED (steady green, steady red)	2NC 2NO	Figure 1		\$166.00
ESL-SSL-232020-AS		3NC 1NO	Figure 2		\$166.00
ESL-SSL-232018-BS	Stainless steel 316 with 2-color 110VAC LED (steady green, steady red)	2NC 2NO	Figure 1		\$166.00
ESL-SSL-232020-BS		3NC 1NO	Figure 2		\$166.00
ESL-SSLP-232024-AS	Stainless steel 316 with 2-color 24VDC LED and protection guard with padlock holes	2NC 2NO	Figure 1	\$176.00	
ESL-SSLP-232026-AS		3NC 1NO	Figure 2	\$176.00	
ESL-SSLP-232024-BS	Stainless 316 steel with 2-color 110VAC LED and protection guard with padlock holes	2NC 2NO	Figure 1	\$169.00	
ESL-SSLP-232026-BS		3NC 1NO	Figure 2	\$169.00	



ESL-SSP-232010



ESL-SSL-232018-AS



ESL-SSLP-232024-AS



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>	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) 1/2" 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°C 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 Snap action up to 4NC (positive break) 2NO (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<sub>th</sub>)</b>	10A
<b>Rated Insulation Voltage (U<sub>i</sub>)</b>	500V
<b>Withstand Voltage (U<sub>imp</sub>)</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

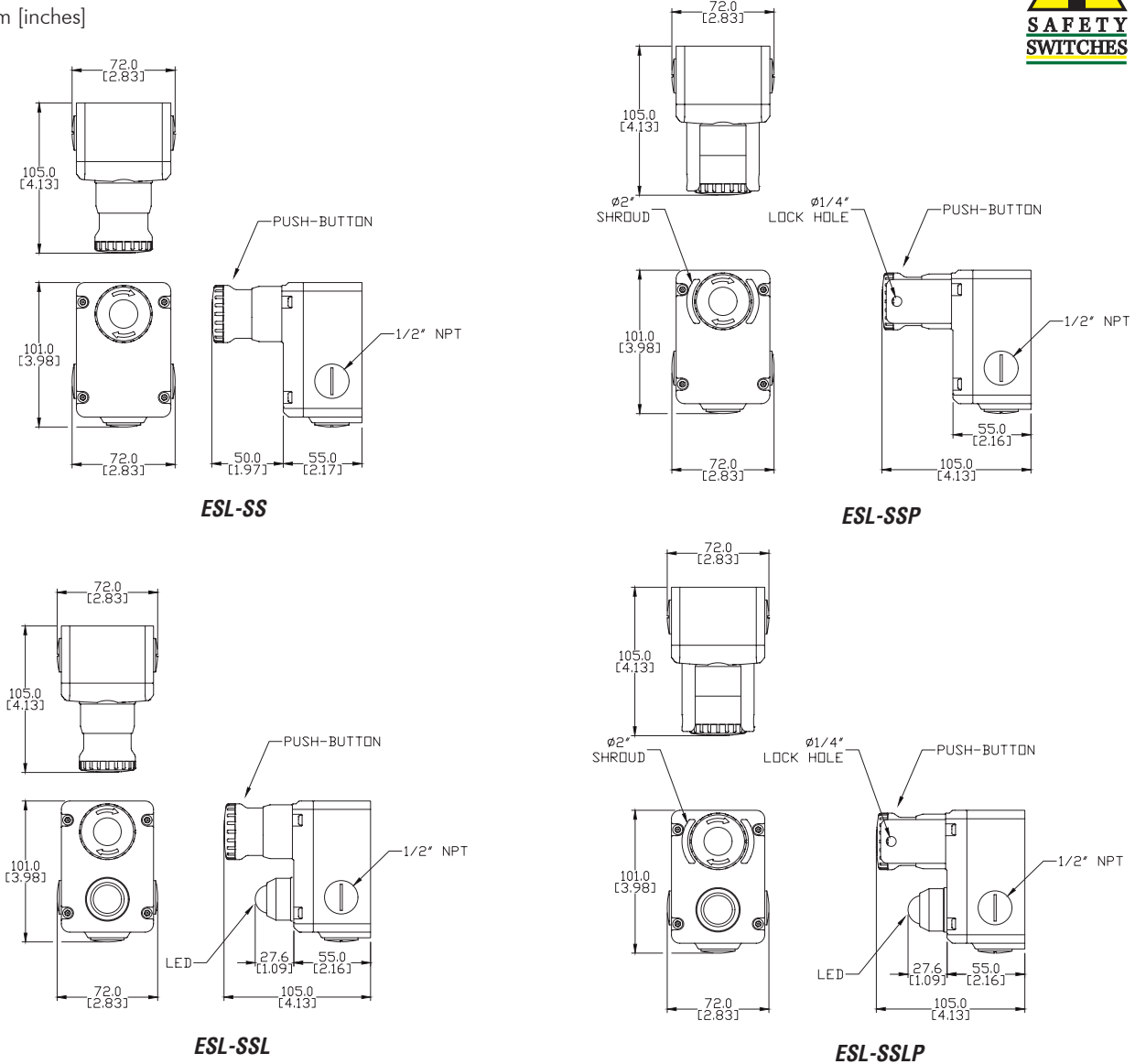
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## Wiring Diagrams

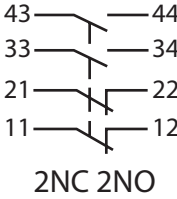


Figure 1

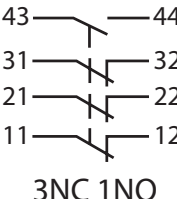


Figure 2

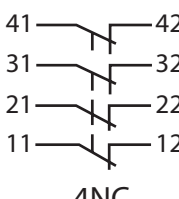


Figure 3

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.