**Standard Duty Emergency Stop Switches-Types: ES-P & ES-SS 3pole**

IDEM Standard Duty Emergency Stop Switches are designed to provide robust Emergency Stop protection for exposed conveyors or machines.

3 pole contact blocks provide positively operated switch contacts.

Features:

- Plastic bodies (IP67) or Stainless Steel 316 (IP69K)
- Conformance to ISO 13850, IEC 60947-5-1 and IEC 60947-5-5
- A special lid safety trip mechanism means that the safety contacts will open if the lid is removed.
- Button protection shroud version with padlock holes for ‘Lock off’ in maintenance situations

<table>
<thead>
<tr>
<th>Sales Number</th>
<th>Type</th>
<th>Conduit Entry</th>
<th>Contacts</th>
</tr>
</thead>
<tbody>
<tr>
<td>230001</td>
<td>ES-P</td>
<td>Knockout M20/1/2,NPT</td>
<td>2NC 1NO</td>
</tr>
<tr>
<td>230002</td>
<td>ES-P</td>
<td>Knockout M20/1/2,NPT</td>
<td>3NC</td>
</tr>
</tbody>
</table>

**Type ES-P (Plastic)**

Knock out for plastic version

<table>
<thead>
<tr>
<th>Sales Number</th>
<th>Type</th>
<th>Conduit Entry</th>
<th>Contacts</th>
</tr>
</thead>
<tbody>
<tr>
<td>231001</td>
<td>ES-SS</td>
<td>M20</td>
<td>2NC 1NO</td>
</tr>
<tr>
<td>231002</td>
<td>ES-SS</td>
<td>1/2 NPT</td>
<td>2NC 1NO</td>
</tr>
<tr>
<td>231003</td>
<td>ES-SS</td>
<td>M20</td>
<td>3NC</td>
</tr>
<tr>
<td>231004</td>
<td>ES-SS</td>
<td>1/4 NPT</td>
<td>3NC</td>
</tr>
</tbody>
</table>

**Type ES-SS (Stainless Steel)**

with button protection shroud and padlock holes

<table>
<thead>
<tr>
<th>Sales Number</th>
<th>Type</th>
<th>Conduit Entry</th>
<th>Contacts</th>
</tr>
</thead>
<tbody>
<tr>
<td>231005</td>
<td>ES-SS(P)</td>
<td>M20</td>
<td>2NC 1NO</td>
</tr>
<tr>
<td>231006</td>
<td>ES-SS(P)</td>
<td>1/2 NPT</td>
<td>2NC 1NO</td>
</tr>
<tr>
<td>231007</td>
<td>ES-SS(P)</td>
<td>M20</td>
<td>3NC</td>
</tr>
<tr>
<td>231008</td>
<td>ES-SS(P)</td>
<td>1/4 NPT</td>
<td>3NC</td>
</tr>
</tbody>
</table>

Gold Plated Contacts available for low power circuits (5V, 5mA).

Add GC to Part Number e.g. 230001-GC

**Standards:**

- IEC 60947-5-1
- IEC 60947-5-5
- EN60414-1
- EN 60204

**Safety Classification and Reliability Data:**

- Mechanical Reliability: B10d = 1.5 x 10^9 operations at 100mA load
- Safety Data - Annual Usage: up to Category 4 with Safety Relay
- Safety Data - Annual Usage: up to SIL3 depending upon system architecture
- Proof Test Interval (Life): 21 years
- MTTF: 214 years
- Enclosure / Cover: Polyester or Stainless Steel 316
- IP Rating: IP67 Plastic IP69K Stainless Steel
- Mounting: 4 x M4
- Mounting position: Any
- Contact entries: 2 x M20 or 2 x 1/4" NPT by part number
- Knockout for plastic version
- Torque settings: 4.0 Nm
- Lid: T20 Torx M4 1.5 Nm
- Terminals: 1.0 Nm
- Ambient Temperature: -25°C +60°C
- Vibration resistance: 10-500 Hz 0.35mm
- Shock resistance: 15g 11ms
- Weight: 250g / 1000 g
- Contact type: IEC 60947-5-1 Double break Type Zb
- Snap Action up to 3NC (positive break)
- 1NO (Auxiliary)
- Contact Material: Silver
- Termination: Clamp up to 2.5 sq. mm conductors
- Rating: Utilisation Category: AC15
- Operational Rating: 240V, 3A
- Thermal Current (th): 10A
- Rated Insulation Voltage (UL): 500V
- Withstand Voltage (Uimp): 2000V
- Short Circuit Overload Protection: Fuse Externally 10A, (FF)

**TYPE: ES-SS (STAINLESS STEEL)**

Fixing Holes for M4 Screws

**TYPE: ES-P**

Fixing Holes for M4 Screws

[Diagram of ES-P and ES-SS switches]

[Diagram of ES-SS(P) switch with key dimensions and knockouts]

[Diagram of ES-SS switch with key dimensions and knockouts]
IDEM Standard Duty Emergency Stop Switches are designed to provide robust Emergency Stop protection for exposed conveyors or machines.

Stainless Steel 316 housings (IP69K)

Conformance to ISO 13850, IEC 60947-5-1 and IEC 60947-5-5

A special lid safety trip mechanism means that the safety contacts will open if the lid is removed.

Button protection shroud version with Padlock holes for ‘Lock off’ during maintenance.

Optional 2 colour LED

Type ESL-SS(LP) (Stainless Steel) with 2 colour LED and protection shroud

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Gold Plated Contacts available for low power circuits (5V, 5mA).

Add GC to Part Number e.g. 232001-GC

Standards:
- IEC 60947-5-1
- IEC 60947-5-5
- EN654-1
- EN62061
- UL508
- ISO13850
- ISO13849-1

Safety Classification and Reliability Data:

- Mechanical Reliability B10d: 1.5 x 10^6 operations at 100mA load
- up to Category 4 with Safety Relay
- ISO 13849-1 up to PLe depending upon system architecture
- EN 62061 up to SIL3 depending upon system architecture
- Safety Data - Annual Usage: 8 cycles per hour / 24 hours per day / 365 days
- PFHd: <1.0 x 10^-7
- Proof Test Interval (Life): 21 years
- MTTFg: 214 years
- Enclosure / Cover: Stainless Steel 316
- IP Rating: IP67 / IP69K
- Mounting: 4 x M4
- Mounting position: Any
- Condut entries: 3 x M20 or 3 x ½" NPT by part number
- Torque settings: Mounting M4 4.0 Nm
- Lid T20 Torx M4 1.5 Nm
- Terminals 1.0 Nm
- Ambient Temperature -25°C to 80°C
- Vibration resistance: 10-500Hz, 0.35mm
- Shock resistance: 15g, 11ms
- Weight: 820 g
- Contact type: IEC 947-5-1 Double break Type Zb
- Snap Action up to 4NC (positive break)
- 2NO (Auxiliary)
- Contact Material: Silver
- Termination: Clamp up to 2.5 sq. mm conductors
- Utilisation Category: AC15
- Operational Rating: 240V, 3A
- Thermal Current (Ith): 10A
- Rated Insulation Voltage (UL): 500V
- Withstand Voltage (ULimp): 2500V
- Short Circuit Overload Protection: Fuse Externally 10A (FF)

Classification: Exd IIIC T6 (-20°C to +60°C) Db
Ex ib IIIC T85°C (-20°C to +60°C) Db

Gold Plated Contacts available for low power circuits (5V, 5mA).

Add GC to Part Number e.g. 232017-GC

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Fixing Holes for M4 Screws

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