Short Body E-stop compliant with ISO13850

Emergency stop switches to ensure safety and functionality
Emergency stop (E-stop) switches are a fundamental safety element for all types of automation, but compact equipment sizes and increasing regulatory requirements are challenging designers to find better ways of incorporating E-stops.

The IDEC XA/XW short-body E-stops address this, featuring a minimal installation footprint and meeting the requirements of ISO13850:2015 by illuminating the cap in red when the E-stop is functional (Active) to be used in an emergency situation, and turning white when the E-stop is not-functional (Inactive).

With additional safety and durability features, designers now have more choices to ensure standards-compliant safety in industrial applications.

Features

Shortest depth in the IDEC X-Series lineup

Panel depth
- 12.6mm (solder terminal)
- 17.0mm (solder/tab #110 terminal)

Designed with the shortest body among multiple generations of IDEC emergency stop switches, this E-stop helps users save space behind the panel for their application.

Unibody structure with 1NO-2NC contacts

Compact unibody structure with 3-terminal configuration suitable for a wide range of applications in limited space.

One contact (blue) can be used as a lamp terminal or as a NO contact for monitoring.
XA/XW series E-stops are UL type 4X certified, making them the ideal E-stops for use in wet, windy, and snowy environments.*

Certified for outdoor use

XA/XW series E-stops are UL type 4X certified, making them the ideal E-stops for use in wet, windy, and snowy environments.*

*Not certified for use in all outdoor environments.

Status indicator and escape structure

The indicator (green area) visible from the side enables the user to check the operating status of the switch at a glance. Also, an escape structure prevents foreign objects from being caught during operation, ensuring a smooth activation of the E-stop in an emergency situation.

Certified for outdoor use

Safer E-stop with reverse energy structure

3rd generation (reverse energy structure)

The energy level of the new emergency stop switch

Main contacts (NC) are always inclined to turn off (safe)
With the growing advancements in technology, users have been demanding more convenient and efficient options such as using detachable cables that allow a single teaching pendant to be used with multiple robots or eliminating the need for wiring altogether. However, safety remains a crucial aspect that must be considered with utmost care. Therefore, the requirements for detachable and wireless operator control stations have been updated in this revision to ensure maximum safety and reliability.

ISO13850: 2015
4.3.8

When emergency stop devices are installed on detachable or cableless operator control stations (e.g. pluggable portable teaching pendants), at least one emergency stop device shall be permanently available (e.g. in a fixed position) on the machine.

In addition, at least one of the following measures shall be applied to avoid confusion between active and inactive emergency stop devices:
— device colour changing through illumination of the active emergency stop device;
— automatic (self-actuating) covering of inactive emergency stop devices; where this is not practicable, manually-applied covering may be used, provided that the cover remains attached to the operator control stations;
— provision of proper storage for detached or cableless operator control stations.

The instructions for use of the machine shall state, which measure has been applied in order to avoid confusion between active or inactive emergency stop device(s). The correct operation of this measure shall be explained.

To ensure quick and effective response in case of an emergency, it is crucial to optimize the operability and visibility of the emergency stop switch. The switch should be easily accessible and actuated with intent and without any hesitation. Therefore, the following safety requirements are included.

Recommended actuators and nameplates

To ensure quick and effective response in case of an emergency, it is crucial to optimize the operability and visibility of the emergency stop switch. The switch should be easily accessible and actuated with intent and without any hesitation. Therefore, the following safety requirements are included.
In emergency situations, an emergency stop switch requires an intentional action to be triggered. As such, it is also essential to consider the intended action required to reset the emergency stop switch as part of the safety requirements.

**Importance of human intention in resetting**

In emergency situations, an emergency stop switch requires an intentional action to be triggered. As such, it is also essential to consider the intended action required to reset the emergency stop switch as part of the safety requirements.

ISO13850:2015

4.1.1.2

The emergency stop function shall be reset by intentional human action. Resetting of the emergency stop function shall be operated by disengagement of an emergency stop device.

**Example (IDEC XA series)**

The NC contact does not move until the emergency stop switch latches (locks), allowing OFF operation and resetting only by the intended operation.

The safety lock feature allows only the intended reset to operate.
Emergency stop switches are vital safety components used across various industries to prevent accidents and ensure worker safety.

The new compact and short-body design XA/XW series offers a wider range of applications, making it a versatile and reliable solution for emergency stop needs.

**Applications**

- **Portable pendants and robot controllers**
- **Low profile panels and small transport equipment**
- **Outdoor facilities with high temperatures (Operating temperature up to +70°C)***
- **Remote control box for use in environments exposed to rain**

*Non-illuminated type only*
The new addition to the XA/XW series features a reverse energy structure with illuminated or 1NO-2NC contact types available. These have a compact and unibody design with a panel depth of 12.6mm.

- Illuminated or 1NO-2NC contact types
- Two reset operations (Pushlock pull or turn reset)
- Reverse energy structure
- Safety lock mechanism (IEC60947-5-5: 6.2)
- Direct opening action mechanism (IEC60947-5-5: 5.2, IEC60947-5-1 annex K.)
- Protection degree IP65, IP67, (IEC60529) and IP69K (ISO20653)
- Indicator and escape structure

Illumination rating:

<table>
<thead>
<tr>
<th>Rated voltage</th>
<th>Coil voltage range</th>
<th>Rated current</th>
</tr>
</thead>
<tbody>
<tr>
<td>24V AC/DC</td>
<td>24V AC/DC ±10%</td>
<td>Typ.10mA</td>
</tr>
</tbody>
</table>

Performance Specifications:

- Standard operating conditions
  - Operating temperature: Non-illuminated: -25 to +70°C (no freezing) / Illuminated: -25 to +55°C (no freezing)
  - Operating humidity: 30 to 85% RH (no condensation)
  - Storage temperature: Non-illuminated: -45 to +80°C (no freezing) / Illuminated: -30 to +70°C (no freezing)

- Operating force:
  - Pushlock: 20N
  - Pull reset: 12N
  - Turn reset: 0.2N·m

- Minimum force required for direct opening action: 50N

- Contact resistance: 50mΩ max. (initial value)

- Insulation resistance: 100MΩ min. (500V DC megger)

- Terminals:
  - Solder terminal
  - Solder/tab #110 terminal

- Recommended tightening torque of locking ring:
  - 0.8 to 0.9N·m
  - 1.8 to 2N·m

- Connectable wire:
  - 1.25mm² max. (AWG16 max.)

- Terminal soldering conditions:
  - 310 to 350°C, within 3 seconds

- Degree of protection:
  - Panel front: IP65, IP67, IP69K, UL Type 4X
  - Impact protection: Equivalent to IK06, 07 *No damages

- Electrical durability:
  - Mechanical: 250,000 times min.
  - Electrical: 100,000 times min.

- Type XA XW:
  - UL recognized ratings: Pilot Duty AC 1.5A / 250V
  - Maximum ambient air temperature 60°C

- *1) UL recognized ratings: Pilot Duty AC 1.5A / 250V
  - UL60947-5-5(*2), UL991(*2), NFPA79 (*2)
  - ISO13850 (*3), UL508, CSA C 22.2 No. 14,
  - GB/T14048.5

- *2) Products other than those with red button specifications are excluded from the button color requirements of the relevant standard. Y (yellow) cannot be used as an emergency stop switch.

- *3) Illuminated white button should be used with red illumination in accordance with ISO13850.

- *4) Not a guaranteed value. The actual life depends on operating environments and conditions.

- *5) The protective structure is based on the test conditions of IEC60529, ISO20653, and JIS C 0920. This is not guaranteed for all operating environments. The specification values for the protective structure are for products that have been installed.
### Emergency Stop Switches

#### ø16 XA pushlock pull or turn reset switch (non-illuminated)

<table>
<thead>
<tr>
<th>Shape</th>
<th>Part No.</th>
<th>Contact</th>
<th>Terminal style</th>
<th>Button color</th>
</tr>
</thead>
<tbody>
<tr>
<td>ø30mm mushroom</td>
<td>XA1E-BV3SG01+</td>
<td>1NC</td>
<td>Solder terminal</td>
<td>Red</td>
</tr>
<tr>
<td></td>
<td>XA1E-BV3SG01T+</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>XA1E-BV3SG02+</td>
<td>2NC</td>
<td>Solder terminal</td>
<td>Bright red</td>
</tr>
<tr>
<td></td>
<td>XA1E-BV3SG02T+</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>XA1E-BV3SG12+</td>
<td>1NO-2NC</td>
<td>Solder terminal</td>
<td>Red</td>
</tr>
<tr>
<td></td>
<td>XA1E-BV3SG12T+</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

- + Color code: R (red), RH (bright red)
- Push lock pull or turn reset switches are locked when pressed, and reset when pulled or turned clockwise.
- Other contact configurations available. Contact IDEC for details.

### ø22 XW pushlock pull or turn reset switch (non-illuminated)

<table>
<thead>
<tr>
<th>Shape</th>
<th>Part No.</th>
<th>Contact</th>
<th>Terminal style</th>
<th>Button color</th>
</tr>
</thead>
<tbody>
<tr>
<td>ø30mm mushroom</td>
<td>XW1E-BV3SG01+</td>
<td>1NC</td>
<td>Solder terminal</td>
<td>Red</td>
</tr>
<tr>
<td></td>
<td>XW1E-BV3SG01T+</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>XW1E-BV3SG02+</td>
<td>2NC</td>
<td>Solder terminal</td>
<td>Bright red</td>
</tr>
<tr>
<td></td>
<td>XW1E-BV3SG02T+</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>XW1E-BV3SG12+</td>
<td>1NO-2NC</td>
<td>Solder terminal</td>
<td>Red</td>
</tr>
<tr>
<td></td>
<td>XW1E-BV3SG12T+</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

- + Color code: R (red), RH (bright red)
- Pushlock pull or turn reset switches are locked when pressed, and reset when pulled or turned clockwise.
- Other contact configurations available. Contact IDEC for details.

#### ø16 XA pushlock pull or turn reset switch (illuminated)

<table>
<thead>
<tr>
<th>Shape</th>
<th>Part No.</th>
<th>Contact</th>
<th>Terminal style</th>
<th>Button color</th>
<th>Illuminated color</th>
</tr>
</thead>
<tbody>
<tr>
<td>ø30mm mushroom</td>
<td>XA1E-LV3SG02Q4R</td>
<td>2NC</td>
<td>Solder terminal</td>
<td>Red</td>
<td>Red</td>
</tr>
<tr>
<td></td>
<td>XA1E-LV3SG02Q4TR</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>XA1E-LV3SG02Q4WR</td>
<td>2NC</td>
<td>Solder terminal</td>
<td>White</td>
<td>Red</td>
</tr>
<tr>
<td></td>
<td>XA1E-LV3SG02Q4TWR</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

#### ø22 XW pushlock pull or turn reset switch (illuminated)

<table>
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<tr>
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<th>Button color</th>
<th>Illuminated color</th>
</tr>
</thead>
<tbody>
<tr>
<td>ø30mm mushroom</td>
<td>XW1E-LV3SG02Q4R</td>
<td>2NC</td>
<td>Solder terminal</td>
<td>Red</td>
<td>Red</td>
</tr>
<tr>
<td></td>
<td>XW1E-LV3SG02Q4TR</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>XW1E-LV3SG02Q4WR</td>
<td>2NC</td>
<td>Solder terminal</td>
<td>White</td>
<td>Red</td>
</tr>
<tr>
<td></td>
<td>XW1E-LV3SG02Q4TWR</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

- When using white button color, make sure to use the switch as an active state when illuminated.
- Pushlock pull or turn reset switches are locked when pressed, and reset when pulled or turned clockwise.
<table>
<thead>
<tr>
<th>Name / Shape</th>
<th>Part No.</th>
<th>Specification</th>
<th>Ordering No.</th>
<th>Quantity</th>
<th>Remarks</th>
</tr>
</thead>
<tbody>
<tr>
<td>Locking ring wrench</td>
<td>MT-001</td>
<td>Metal (brass, nickel plated)</td>
<td>MT-001</td>
<td>1</td>
<td>For XA series. Used to tighten the locking ring when mounting the unit to the panel.</td>
</tr>
<tr>
<td>Locking ring</td>
<td>XA9Z-LNW</td>
<td>Polyamide resin (White)</td>
<td>XA9Z-LNW</td>
<td>1 (10 pcs)</td>
<td>For XA series</td>
</tr>
<tr>
<td>Locking ring wrench</td>
<td>MW9Z-T1</td>
<td>Metal (Brass)</td>
<td>MW9Z-T1</td>
<td>1</td>
<td>For XW series. Used to tighten the locking ring when mounting the unit to the panel.</td>
</tr>
<tr>
<td>Locking ring</td>
<td>XW9Z-LNW</td>
<td>Polyamide resin (White)</td>
<td>XW9Z-LNWPN</td>
<td>1 (5 pcs)</td>
<td>For XW series</td>
</tr>
</tbody>
</table>
Dimensions
ø16 XA pushlock pull or turn reset switch (illuminated or non-illuminated)

<table>
<thead>
<tr>
<th>Solder terminal</th>
<th>Solder/tab #110 terminal</th>
</tr>
</thead>
<tbody>
<tr>
<td>Panel thickness 0.8 to 3.7mm</td>
<td>Panel thickness 0.8 to 3.7mm (insulated panel)</td>
</tr>
<tr>
<td>1NO, 2NC: 0.8 to 3.7mm (insulated panel)</td>
<td>1NO, 2NC: 0.8 to 3.7mm (insulated panel)</td>
</tr>
<tr>
<td>0.8 to 3.0mm (conductor panel)</td>
<td>0.8 to 3.0mm (conductor panel)</td>
</tr>
</tbody>
</table>

ø22 XA pushlock pull or turn reset switch (illuminated or non-illuminated)

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<tr>
<th>Solder terminal</th>
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<tr>
<td>Panel thickness 0.8 to 3.7</td>
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</tr>
<tr>
<td>1NO, 2NC: 0.8 to 3.7mm (insulated panel)</td>
<td>1NO, 2NC: 0.8 to 3.7mm (insulated panel)</td>
</tr>
<tr>
<td>0.8 to 3.0mm (conductor panel)</td>
<td>0.8 to 3.0mm (conductor panel)</td>
</tr>
</tbody>
</table>

Panel cut-out
ø16 XA pushlock pull or turn reset switch (illuminated or non-illuminated)

All dimensions in mm.

Terminal arrangement (BOTTOM VIEW)
Non-illuminated

<table>
<thead>
<tr>
<th>1NC contact</th>
<th>2NC contact</th>
<th>1NO-1NC contact</th>
<th>1NO-2NC contact</th>
</tr>
</thead>
<tbody>
<tr>
<td>TOP</td>
<td>TOP</td>
<td>TOP</td>
<td>TOP</td>
</tr>
<tr>
<td>1NC: Terminals on left</td>
<td>2NC: Terminals on right</td>
<td>1NC: Terminals on left</td>
<td>2NC: Terminals on right</td>
</tr>
</tbody>
</table>

Illuminated

<table>
<thead>
<tr>
<th>1NC contact</th>
<th>2NC contact</th>
</tr>
</thead>
<tbody>
<tr>
<td>TOP</td>
<td>TOP</td>
</tr>
<tr>
<td>1NC: Terminals on left</td>
<td>2NC: Terminals on right</td>
</tr>
</tbody>
</table>
**Safety Precautions**

- Turn off the power to the product before starting installation, removal, wiring, maintenance, and inspection of the products. Failure to turn off the power may cause electrical shock or fire.

- Use wires of the proper size to meet the voltage and current requirements. Incorrect wiring causes overheating, resulting in a possible fire hazard. Provide appropriate protection against electric shock. Failure to turn power off may cause electrical shock or fire.

**Instructions**

**Panel mounting**

**Notes for panel mounting**

Do not tighten with excessive force using tools such as pliers. Otherwise the locking ring may be damaged.

**XA series**

Remove the locking ring from the operator and check that the rubber gasket is in place. Insert the operator from panel front into the panel hole. Install the locking ring with the recommended tightening torque by aligning the protrusion A of the operator with the panel hole groove. Using the locking ring wrench MT-001, tighten the locking ring to a torque of 0.8 to 0.9N·m.

**X Series**

Remove the locking ring from the operator and insert the operator from panel front into the panel hole. Install the locking ring with the recommended tightening torque by aligning the protrusion B of the operator with the panel hole groove. Using the locking ring wrench MW92-T1, tighten the locking ring to a torque of 1.8 to 2.0N·m.

**Wiring (Notes for solder terminal)**

1) The applicable wire size is 1.25mm² maximum. The wires should be soldered through the holes in the terminals.

2) Solder the terminals using a soldering iron at 310 to 350°C for within 3 seconds. Do not use flow or dip soldering. (Sn-Ag-Cu type lead-free solder is recommended.) When soldering, make sure to solder as far away as possible from the plastic part of the switch body. Do not apply external force such as bending the terminals or pulling the wires. Check the operation using the actual load.

3) Use a non-corrosive resin-based flux. To prevent the flux from entering the switch while soldering, face the terminals downward.

4) Because the terminal spacing is narrow, use protective tubes or heat shrinkable tubes to avoid burning the wire sheath or short circuit.

5) Apply force on the terminals in the vertical direction to the panel only, otherwise the terminals will be damaged.

**Contact chatter/bounce**

Contact chatter/bounce may occur when the main contact (NC contact) is reset by pulling or turning or when the monitor contact (NO contact) is pressed. Take countermeasures to prevent chatter/bounce. (Reference value: 20ms)

Also, do not apply external shock to the switch as chatter may occur.

**LED Illuminated Switches**

- Illumination colors and illuminance may vary depending on the LED element and each product.

- An LED lamp is built into the contact block and cannot be replaced.

**Notes**

- Do not expose the switch to excessive shock and vibration, otherwise the switch may be deformed or damaged, causing malfunction or operation failure.

- Be sure to observe the operating ambient temperature. Ambient operating temperature is the temperature surrounding the product. Check the ambient temperature when using the product. Conditions exceeding the specifications may cause the internal temperature to rise, resulting in failure.

- Do not disassemble, repair, or modify the power supplies.

- The color of the handle may vary on the production lot.

- The resin may discolor if left in a high temperature environment.

- Do not disassemble, repair, or modify the power supplies.

- The resin may discolor if left in a high temperature environment.

- Do not install in the following environment

1) Where this product is exposed to high-pressure water. (Exceeding specifications equivalent to IEC60529 protection classes IPX5, IPX7, and IPX9K)

2) Where dust (locations exceeding the specifications equivalent to IEC60529 protection class IP6X)

3) Where safety and reliability may be impaired by corrosive, volatile, flammable or chemicals gases, etc.

4) Where strong magnetic fields or strong electric fields are generated.

5) Where flammable substances are generated or exist.

6) Locations where condensation or icing may occur, such as inside freezers, air conditioner vents, etc.

(When using the product in the above locations, take measures to prevent condensation or icing.)

9) Where ozone, radiation, or ultraviolet rays may impair safety or reliability.

Be sure to read the instruction manual carefully before performing installation, wiring, or maintenance work.

For details on mounting, wiring, and maintenance, see the instruction manual from the URL below.

URL: https://product.idec.com/?product=XA1E-XW1E
Ordering Terms and Conditions

Thank you for using IDEC Products.

By purchasing products listed in our catalogs, datasheets, and the like (hereinafter referred to as “Catalogs”) you agree to be bound by these terms and conditions. Please read and agree to the terms and conditions before placing your order.

1. Notes on contents of Catalogs

1.1 Rated values, performance values, and specification values of IDEC products listed in this Catalog are values acquired under respective conditions in independent testing, and do not guarantee values gained in combined conditions. Also, durability varies depending on the usage environment and usage conditions.

1.2 Reference data and reference values listed in Catalogs are for reference purposes only, and do not guarantee that the product will always operate appropriately in that range.

1.3 The specifications / appearance and accessories of IDEC products listed in Catalogs are subject to change or termination of sales without notice, for improvement or other reasons.

1.4 The content of Catalogs is subject to change without notice.

2. Note on applications

1. If using IDEC products in combination with other products, confirm the applicable laws / regulations and standards. Also, confirm that IDEC products are compatible with your systems, machines, devices, and the like by using under the actual conditions. IDEC shall bear no liability whatsoever regarding the compatibility with IDEC products.

2. The usage examples and application examples listed in Catalogs are for reference purposes only. Therefore, when introducing a product, confirm the performance and safety of the instruments, devices, and the like before use. Furthermore, regarding these examples, IDEC does not grant license to use IDEC products to you, and IDEC offers no warranties regarding the ownership of intellectual property rights or non-infringement upon the intellectual property rights of third parties.

3. When using IDEC products, be cautious when implementing the following.

3.1 Use of IDEC products with sufficient allowance for rating and performance

3.2 Safety design, including redundant design and malfunction prevention design that prevents other danger and damage even in the event that an IDEC product fails

3.3 Wiring and installation that ensures the IDEC product used in your system, machine, device, or the like can perform and function according to its specifications

3.4 Continuing to use an IDEC product even after the performance has deteriorated can result in abnormal heat, smoke, fires, and the like due to insulation deterioration or the like. Perform periodic maintenance for IDEC products and the systems, machines, devices, and the like in which they are used.

3.5 IDEC products are developed and manufactured as general-purpose products for general industrial products. They are not intended for use in the following applications, and in the event that you use an IDEC product for these applications, unless otherwise agreed upon between you and IDEC, IDEC shall provide no guarantees whatsoever regarding IDEC products.

3.6 Use in applications that require a high degree of safety, including nuclear power control equipment, transportation equipment (railroads / airplanes / ships / vehicles / vehicle instruments, etc.), equipment for use in outer space, elevating equipment, medical instruments, safety devices, or any other equipment, instruments, or the like that could endanger life or human health

3.7 Use in applications that require a high degree of reliability, such as provision systems for gas / waterworks / electricity, etc., systems that operate continuously for 24 hours, and settlement systems

3.8 Use in applications where the product may be handled or used deviating from the specifications or conditions / environment listed in the Catalogs, such as equipment used outdoors or applications in environments subject to chemical pollution or electromagnetic interference

3.9 If you would like to use IDEC products in the above applications, be sure to consult with an IDEC sales representative.

3.10 IDEC Corporation

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4. Warranty

5. Limitation of liability

6. Service scope

The prices of IDEC products do not include the cost of services, such as dispatching technicians. Therefore, separate fees are required in the following cases.

(1) Instructions for installation / adjustment and accompaniment at test operation (including creating application software and testing operation, etc.)

(2) Maintenance inspections, adjustments, and repairs

(3) Technical instructions and technical training

(4) Product tests or inspections specified by you

The above content assumes transactions and usage within your region. Please consult with an IDEC sales representative regarding transactions and usage outside of your region. Also, IDEC provides no guarantees whatsoever regarding IDEC products sold outside your region.