

# Smile Emergency-Stops

## Visibly better

The Smile E-stop was developed to address major issues with conventional e-stops, the most widely used stopping device on the market today—first, to eliminate the need for contact blocks that may loosen resulting in the e-stop button failing in an unsafe mode—second, to lower the labor costs associated with installation —and third, to utilize built-in diagnostics to reduce the time needed for troubleshooting.

## Unparalleled value

- Engineered to eliminate the need for “snap-on” contacts.
- Plug-and-play technology, with multiple connect/disconnect options, reduces costs up to 60% compared to conventional machine wiring methods.
- Built-in LED diagnostics reduce downtime when troubleshooting.
- Robust molded construction—no assembly necessary.
- Control reliable and product reliable to keep machines running.
- Available for both static and dynamic pulse safety circuits.
- Several E-stops in series meet the highest level<sup>Q</sup> of safety.

## Unique design

Eliminates the need for strain relief and terminal wiring required on conventional e-stops.

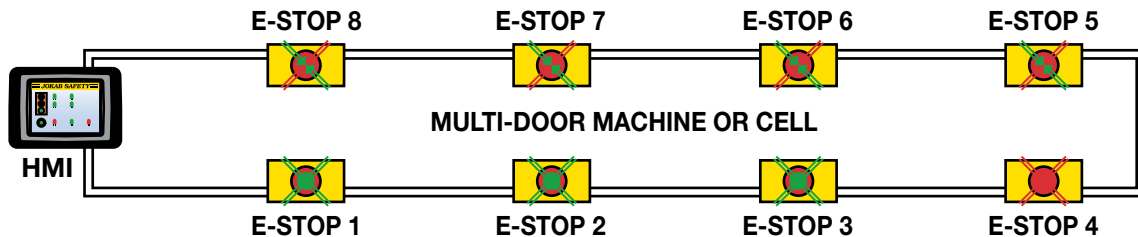
- Every Smile comes standard with LEDs and Tina version also has output for diagnostics.
- Available in two variations—for static as well as ABB JOKAB SAFETY’s dynamic pulse safety circuits (see note).
- Easy installation with mounting hardware included, no costly fabricated switch brackets are required.
- Offered with one or two M12 connectors.

## Increase profits by reducing downtime

LEDs, standard on every Smile, makes set up and troubleshooting quick and easy, unlike conventional e-stops without any visual indication. Without this feature, common system faults— due to vibration, damage and single channel safety faults—can be a mystery to diagnose until E-stops are individually cycled and tested, resulting in extended downtime.



*Note: Dynamic pulse safety circuits achieved when Smile interfaces with Vital Controller or Pluto safety PLC.*



**SMILE TINA DIAGNOSTICS’ LED allows for immediate diagnosis and reset.**

**Green LED:** E-stop not pressed and entire circuit up to this point is satisfied.

**Red LED:** E-stop pressed.

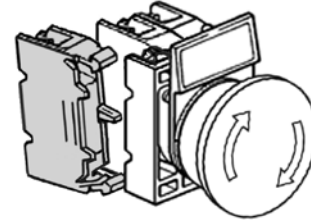
**Flashing Green/Red LED:** E-stop located before is pressed.

# Increase machine reliability and safety with Smile E-Stops

Industry often struggles with maintaining both safety requirements, as well as machine reliability. Smile E-stops offer tremendous advantages in both of these areas. Smile is fully integrated with a robust molded covering that resists dirt and stands up to harsh conditions. Easy-to-install, Smile E-stop button has built-in LED diagnostics that reduce costs while meeting the highest level<sup>®</sup> of safety.

## Conventional E-Stop switches

- Assembly and mounting to panel surface required.
- Auxiliary contact elements need to be installed as part of the assembly.
- Constant usage, heavy vibration, improper assembly or installation can cause auxiliary contacts to loosen, eventually resulting in failure in an unsafe mode.



## Smile E-Stop for conventional controlled stop conditions

- Available with black actuator for conditions such as line stop, request to enter, maintenance stop and production halt.
- Robust molded construction—no assembly necessary.
- Every Smile comes standard with LED and output for diagnostics.
- Plug-and-play technology, with multiple connect/disconnect options, reduces installation time.
- Engineered to eliminate the need for auxiliary contacts.
- Easy installation with mounting hardware included.



## Designed for universal applications

- Packaging industries
- Textile applications
- Robotic cells
- Material handling
- Press industry
- Printing applications
- Commercial usage
- Unlimited industries



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