

# Smile Emergency-Stops

**Safety  
Facts**



## Visibly Better

The Smile E-Stop was developed to address major issues with conventional e-stops, the most widely used safety 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.

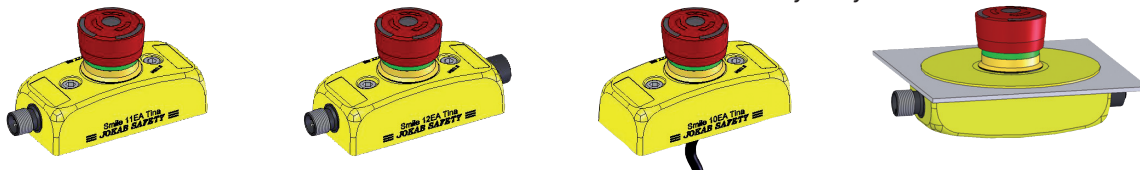
## Unparalleled Value

- Engineered to eliminate the need for auxiliary 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 up to Category 3 according to EN 954-1/EN ISO 13849-1

## Unique Design

- Eliminates the need for strain relief and terminal wiring required on conventional e-stops
- Every Smile comes standard with LED and output for diagnostics
- Available for both static and Jokab Safety dynamic pulse\* safety circuits — and in four variations
- Offered with one or two M12 connectors or molded cable
- Easy installation with mounting hardware included, no costly fabricated switch brackets are required

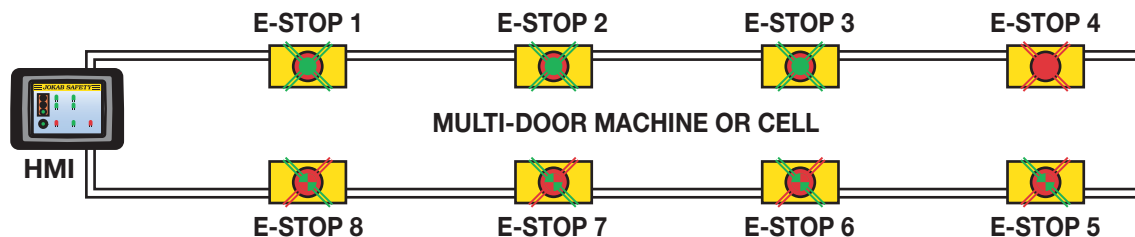
\* interfaces with Vital 1 Controller, Pluto PLC or Safety Relays



## 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, misalignment and single channel safety faults — can be a mystery to diagnose until e-stops are individually cycled and tested, resulting in extended downtime.



**SMILE DIAGNOSTICS' Red LED allows for immediate diagnosis and reset.**

**Green LED:** Door closed and entire circuit up to this point is satisfied.

**Red LED:** Door opened or out of alignment.

**Flashing Green/Red LED:** Door closed, but door located before it is open.

VISION + VERSATILITY = VALUE

**≡ JOKAB SAFETY ≡**

A MEMBER OF THE ABB GROUP

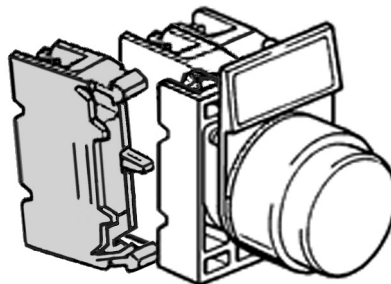
## Increase Machine Reliability and Safety with Smile E-Stops

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 is an electrically Category 4 e-stop button with built-in LED diagnostics that reduce costs while increasing 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
- Robotic Cells
- Press Industry
- Commercial Usage
- Textile Applications
- Material Handling
- Printing Applications
- Unlimited Industries

