Push-button box
Smile 41

Smile 41 gathers up to four push-buttons and emergency stop button in a single compact device easily connected to a Pluto Safety PLC with only one M12 connector.

**Reduced stock levels and development time**
Smile 41 exists in two different models and is highly adaptable. A kit of coloured filters is supplied and the colour of each button can be chosen after delivery and changed later. Pluto manages automatically the lighting of all the buttons.

**High level of safety with a simplified cabling**
Though only one cable is used for the signals of the four buttons, an eventual short-circuit can be detected by the Pluto and the highest level of safety can be reached.

**Faster installation**
Thanks to its small size and centred mounting holes, Smile 41 is easy to position. The four buttons are connected with only one M12 connector which speeds up the connection.

**Less downtime**
Smile 41 is intended to be used with Pluto, an easy to use Safety PLC offering extensive communication possibilities, thus enhancing user friendliness and simplifying troubleshooting.

---

1. Choose your model
2. Choose the color of the push-button by using one of the provided filter.

For example:
Blue is quite common for a reset button, and white for a start button. You can choose and change opinion as you please.

Our example uses a Smile 41 EWWWP
- The emergency stop button stops all movement in the cell when pushed.
- One push-button is used to request the unlocking of the door.
- One push-button is used as reset button.
- One push-button is used as start button.
Technical data – Smile 41

**SIL3, PFD avr: 2.95x10⁻⁶, PFHd: 6.95x10⁻⁹**

**Up to PL e/Cat.4 - MTTFd: High**

**For emergency stop button / safety stop button**

To reach the highest of safety, the Pluto Safety PLC used should have OS 3.6 or higher.

Certificates and manuals with additional information can be found on www.abb.com/jokabsafety

Operating voltage 24 VDC ± 15%

Total current consumption

| Emergency stop button LED indication | 20 mA |
| Illuminated push button LED indication | 20 mA during activation |

Protection class IP65

Ambient temperature -25…+50°C

Size 60 x 40 x 260 mm (+13.5 mm M12 connector)

Weight 0.19 kg

Colour

| Box | Yellow |
| Emergency stop button | Red |
| Illuminated push button | White (without colour filter) |

Connectors

| M12-8 pin male |

ConnectionsSee Electrical diagrams

**Emergency stop button** 22 ± 4 N

**Actuator travel** Approx. 4 mm to latch

**Mechanical life** > 50 000 operations


Models and ordering data

| Smile 41 WWWWP | 2TLA030057R0000 | 4 push-buttons and kit of filters |
| Smile 41 EWWWWP | 2TLA030057R0100 | 1 emergency stop + 3 push-buttons and kit of filters |
| Kit of coloured filters (spare part) | 2TLA030059R2600 | Blue, green, red, white, yellow |

Smile 41 requests a cable with one M12 female connector on the Smile 41 side and 8 conductors.

For cables with M12 connectors, see our Product list “Accessories, connectors and cables”.

Smile 41 dimensions

Note: All dimensions in mm
Electrical diagram for Smile 41 WWWW

Note: Colours according to ABB Jokab Safety standard cables