Push-button box Smile 41







MIB JOKAB SA

Application:

- Safe stop of a machine or a process
- Start, reset, stop buttons

<u>Features:</u>

- Compact size
- LED indication
- Fast M12 connection
- Only 5 I/Os necessary

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

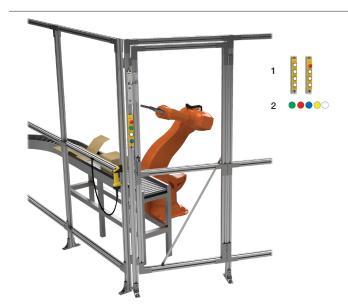
Though only one cable is used for the signals of the four buttons, an eventual short-circuit can be detected by the Pluto and the highest level of safety can be reached.

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
- One push-button is used as reset button.
- One push-button is used as start button.

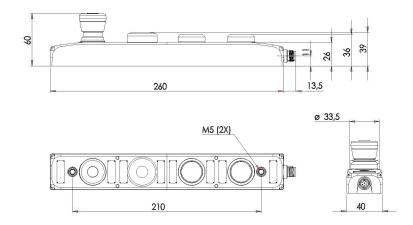
Models and ordering data

Smile 41 WWWWP	2TLA030057R0000	4 push-buttons and kit of filters
Smile 41 EWWWP	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".

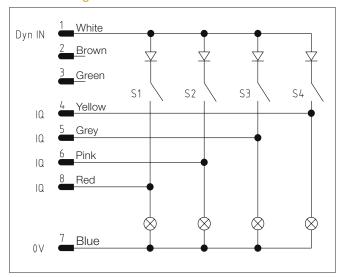
Technical data - Smile 41			
Functional Safety Data			
IEC/EN 61508-17	SIL3, PFD _{avr} : 2.95x10 ⁻⁶ , PFH _d : 6.95x10 ⁻⁹		
EN 62061	SIL3		
EN ISO 13849-1	Up to PL e/Cat.4 - MTTFd: High		
EN 60947-5-1 & -5	For emergency stop button / safety stop button		
EN ISO 13850:2008	For emergency stop button / safety stop button		
To reach the highest of safety, the Pluto	Safety PLC used should have	OS 3.6 or higher.	
Certificates	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)		
Connector	M12-8 pin male		
Connections	See Electrical diagrams		
	Emergency stop button	Illuminated push button	
Actuating force	22 ± 4 N	7 ±3 N	
Actuator travel	Approx. 4 mm to latch	Approx. 4 mm	
Mechanical life	> 50 000 operations	1000000	
Conformity	European Machinery Directive 2006/42/EC; EN 61508:2010, parts 1-7; EN 62061:2005; EN ISO 13849-1:2008 ISO 13849-2:2012; 60947-5-5:2005		

Smile 41 dimensions



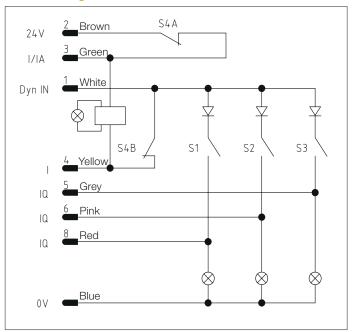
Note: All dimensions in mm

Electrical diagram for Smile 41 WWWWP



Note: Colours according to ABB Jokab Safety standard cables

Electrical diagram for Smile 41 EWWWP



Contact us

ABB AB Jokab Safety www.abb.com/jokabsafety

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