

# Emergency Stop Pushbutton with Black/Yellow Box 72x72x58mm

CARLO GAVAZZI



EMPB020/2BY

- Double insulation □
- Degree of protection IP65
- PG 13.5 / M20 cable gland
- 4 Unloseable screws
- According to EN418
- Conform to IEC947-5-1, EN60947-5-1
- Press to lock, twist clockwise to release
- Red emergency stop push button cULus approved (3MHG)
- CE

## Product Description

Emergency stop switches are devices that users manipulate to initiate the complete shutdown of a machine, system, or process. Pushbuttons are relatively large devices that open or close a switch when pressed.

Usually, double-pole, single-throw (DPST) contact block is used to turn off the power. The twist-to-reset switches require users to twist a button in order to reset the switch and resume operation.

## Ordering Key

**EMPB 020/2 BY**

Button Type \_\_\_\_\_  
Contact block \_\_\_\_\_  
Box Colour \_\_\_\_\_

## Approvals



## Contact Block

000	Nil
200/1	2 NO Snap action
200/2	2 NO Slow action
020/1	2 NC Snap action
020/2	2 NC Slow action
010/1	1 NC Snap action
010/2	1 NC Slow action
100/1	1 NO Snap action
100/2	1 NO Slow action
110/1	1 NC + 1NO Snap action
110/2	1 NC + 1NO Slow action

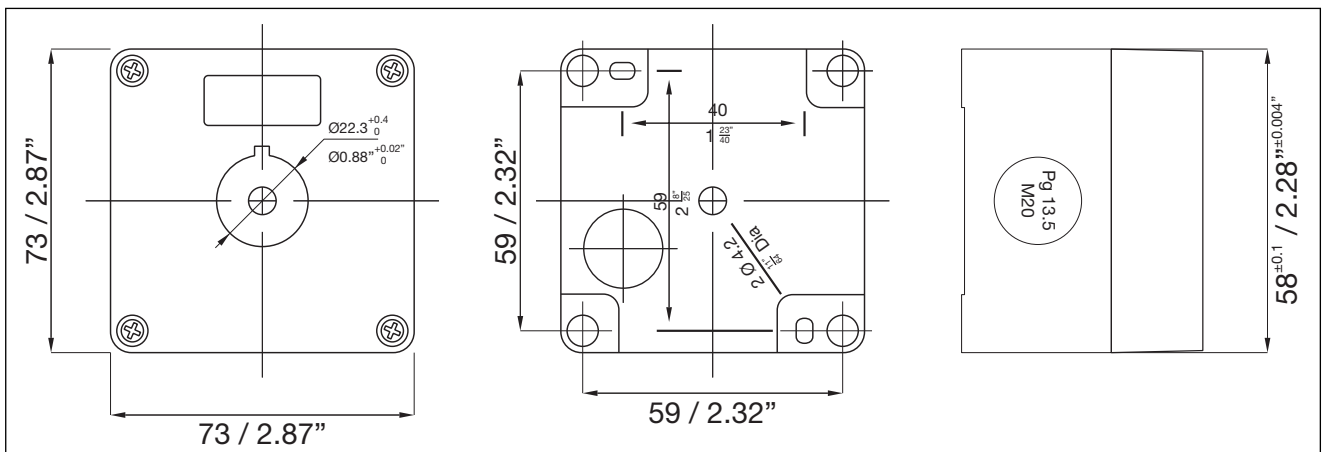
## Box Colours

BY	Base:	Black
	Cover:	Pantone Yellow
BG	Base:	Black
	Cover:	Grey RAL7035

## General Data

Material	PC - Polycarbonate
Equipped with:	Red emergency stop pushbutton
Warning plate	Ø40mm Press to lock, twist to release Ø60mm

## Dimensions (mm/inches)





- High switching power
- Double switch
- Industrial applications
- 10A switching capacity
- Up to 500VAC
- Modular mounting (up to 3 elements)
- Screw terminals
- High reliability
- cULus and CE
- IEC/EN 60947-5-1, IEC/EN 60947-5-5, UL 508

## Product description

Switching element equipped with two independent elements. Available in different switching configurations. Pole and throw configurations can be single pole single throw (SPST) or double pole single throw (DPST). Elements can be snapped to each other on the bottom, up to 3.

## Ordering key

**PA 2 110 / 1**

Type \_\_\_\_\_  
 Number of contacts \_\_\_\_\_  
 Contact code \_\_\_\_\_  
 Options ( 1 = Snap action \_\_\_\_\_  
 2 = Slow action with forced opening ⊕ NC contact)

## Approvals



## Terminals

### Screw terminals

Max. section single-core wire  
 Max. section stranded wire  
 Copper conductor wire  
 Terminal tightening torque

2 x 2.5mm<sup>2</sup> (0.004sq.inch)  
 2 x 1.5mm<sup>2</sup> (0.002sq.inch)  
 14 AWG  
 1.2Nm (10.6in.lb.)

## Technical data

Contact resistance	≤50mΩ
Travel	5.8 ± 0.2mm (2.28" ± 0.08")
Rated insulation Voltage U <sub>i</sub>	660VAC/DC (acc. to IEC 60947-5-1) 600VAC/DC (acc. to UL508)
Rated imp. withstand voltage U <sub>imp</sub>	2500VAC 50Hz 1min.
Minimum switching power	
Min Current	100mA
Min Voltage	24V
Switch housing	PC
Contact parts	Cu
Contact material	
Standard	Hard silver
Optional	Gold/silver
Optional for aggressive atmospheres	Silver/palladium
Operating temperature	-25 to +70°C (-13 to +158°F)
Storage temperature	-30 to +80°C (-22 to +176°F)

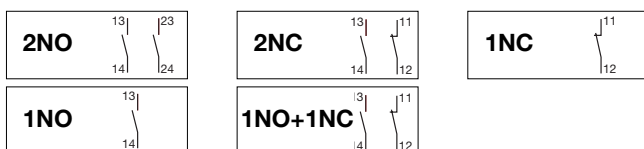
## Contact code

Contact configuration	Contact code
2 NO contacts (DPST)	200
2 NC contacts (DPST)	020
1 NC contact (SPST)	010
1 NO contact (SPST)	100
1 NC + 1 NO contacts (DPST)	110

## Contact characteristics

Contact Rating AC1	10A @ 250VAC		
Contact Rating	AC15	DC13	
(acc. to IEC 60947-5-1)			
@ 24V	10A	6A	
@ 110V	8A	1A	
@ 220V	6A	0.5A	
@ 380V	4A	-	
@ 500V	2.5A	-	
Thermal Contact Rating	10A (A600)	5A (B600)	
(acc. to UL 508)	2.5A (Q600/Q300)		
AC Contact Rating (acc. to UL 508)	A600	B600	
B600 (all snap codes)	@ 120V 6A	3A	
A600 (all slow codes)	@ 240V 3A	1.5A	
	@ 480V 1.5A	0.75A	
	@ 600V 1.2A	0.6A	
DC Contact Rating (acc. to UL 508)	Q600	Q300	
Q600 (all snap codes)	@ 125V 0.55A	0.55A	
Q600 (100, 200 slow codes)	@ 250V 0.27A	0.27A	
Q300 (010, 020, 110 slow codes)	@ 480V 0.10A	-	
	@ 600V 0.10A	-	

## Wiring diagram



## Dimensions mm/inches

