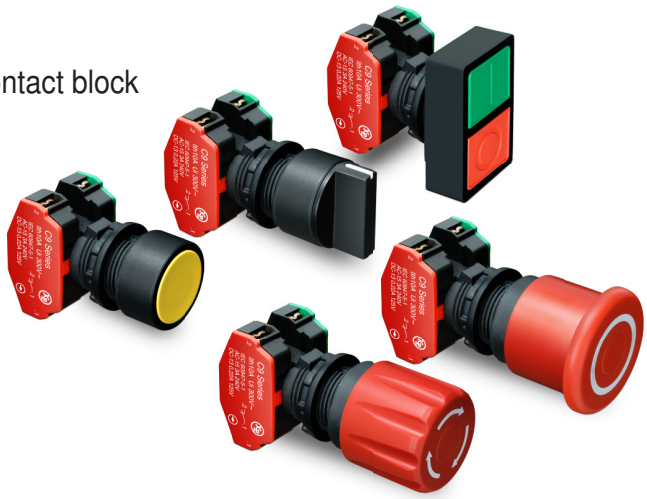
C9 Series

Compact Control Unit

- Economic control units for low voltage circuits
- The only one with operator connected directly to the contact block
- Thermoplastic sturdy construction
- Round bezel for ø22mm holes
- Several options and combinations of contacts
- Positive opening of the NC contact ⊕ (IEC 60947-5-1)
- Screw terminals with retractable clamps
- Visual button integrated with the C series



Specifications

Utilization Category (IEC 60947-5-1)	AC-15	DC-13
Rated Operational Voltage (Ue)	240V	125V
Rated Operational Current (Ie)	3A	0,22A
Rated Thermal Current (Ith)	10A	1A
Rated Insulation Voltage (Ui)	300V	
Contact Resistance	50mΩ maximum initial (in 1A 5Vdc)	
Ambient Temperature	+70°C maximum	
Contact Type	Slow action with positive opening of the NC contact ⊕	
	Options: 1NO 1NC 1NO+1NC 2NO 2NC	
Terminals	Screw terminals with retractable clamp, with insulating protection against electric shocks	
Wiring Cables	0.32mm² (22AWG) min. to 3.3 mm² (12AWG) max.	
Mechanical Life	3.000.000 cycles for pushbuttons, double pushbutton and mushroom pushbutton	
	200.000 cycles for emergency and selector	
Electrical Life	200.000 cycles	
Degree of Protection	IP65 (IP40 for double pushbutton) (IEC 60529) ①	
Panel Thickness	1 to 6mm (the thickness variation is compensated turning the fixing nut)	

① Some models may have the degree of protection raised to IP68. See: Accessories - Protecting Cap (page 4).

KAP COMPONENTES ELÉTRICOS Ltda.

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Compact Pushbutton

Color	Circuitry				
	1NO	1NC(➔)	1NO+1NC(➔)	2NO	2NC(➔)
Red	**C9BNR10**	**C9BNR01**	**C9BNR11**	**C9BNR20**	**C9BNR02**
Green	**C9BNV10**	**C9BNV01**	**C9BNV11**	**C9BNV20**	**C9BNV02**
Yellow	**C9BNA10**	**C9BNA01**	**C9BNA11**	**C9BNA20**	**C9BNA02**
Black	**C9BNP10**	**C9BNP01**	**C9BNP11**	**C9BNP20**	**C9BNP02**

Double Pushbutton

Models supplied with ISO symbols in the Caps:
(I) in the Green Cap and (O) in the Red Cap.
Optionally caps can be supplied without the ISO symbols.

Circuitry		
1NO+1NC(➔)	2NO	2NC(➔)
C9DG11	**C9DG20**	**C9DG02**

Mushroom Pushbutton

ø40mm

Color	Circuitry				
	1NO	1NC(➔)	1NO+1NC(➔)	2NO	2NC(➔)
Red	**C9E4R10**	**C9E4R01**	**C9E4R11**	**C9E4R20**	**C9E4R02**
Green	**C9E4V10**	**C9E4V01**	**C9E4V11**	**C9E4V20**	**C9E4V02**
Yellow	**C9E4A10**	**C9E4A01**	**C9E4A11**	**C9E4A20**	**C9E4A02**
Black	**C9E4P10**	**C9E4P01**	**C9E4P11**	**C9E4P20**	**C9E4P02**

Emergency

Push/Turn

Emergency pushbutton type Emergency with lock and without spring return.
To unlock it is necessary turn the button in the direction indicated by arrow.

Circuitry	
1NO+1NC(➔)	2NC(➔)
C9EK11	**C9EK02**

Push/Pull

Emergency pushbutton with lock and without spring return.
To unlock it is necessary pull the button.

Circuitry	
1NO+1NC(➔)	2NC(➔)
C9EW11	**C9EW02**

C9 Series

Compact Control Unit

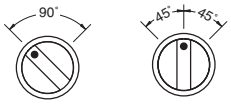
Selector

Control unit type selector with rotary handle. Option for 2 or 3 positions without spring return.
Bezel and handle in black. Please call for other handle colors.

	Circuitry		
Function	1NO+1NC (➔)	2NO	2NC ➔
⩒	**C9SN2PA11**	**C9SN2PA20**	**C9SN2PA02**
⩔	**C9SN3PB11**	**C9SN3PB20**	**C9SN3PB02**

Used symbology to define the functions:

⩒	2 positions without return
⩔	3 positions without return



Additional Contact Block

The contact block executes the electrical functions and is already provided connected to the operator, but an additional block can be docked to the first. The maximum limit is one additional contact block. Only double body contact blocks allow the assembly of additional blocks.

Self cleaning silver alloy contacts and positive breaking of NC contact ➔.

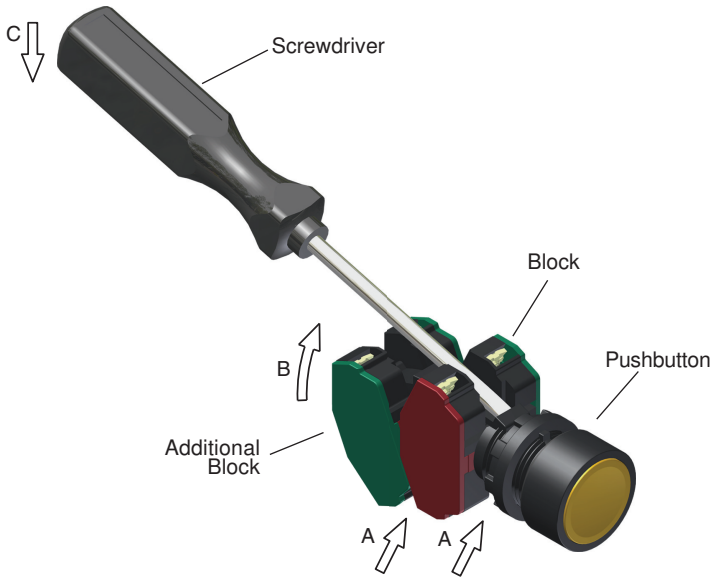
Actuating pin and cover cap in colors: green meaning NO and red NC.

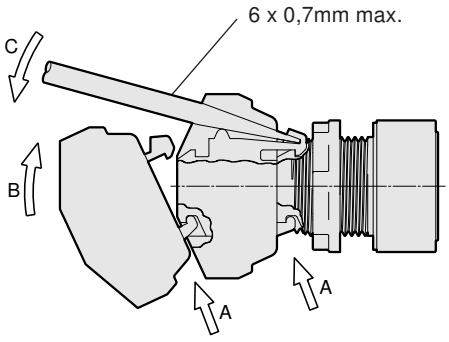
Contacts	Circuitry	Code
1NO + 1NC (➔)		**C9AB11** ①
1NO		**C9AB10** ②
1NC ➔		**C9AB01** ②
2NO		**C9AB20** ①
2NC ➔		**C9AB02** ①

① Double body contact blocks

② Single body contact blocks

Contact Block Mounting





The assembly and disassembly of the contact block on the pushbutton or another contact block is made as instructions below:

Assembly: Plug *additional block* in the bottom *block* accommodation or in the button (arrow A). Rotate (arrow B) until occur the characteristic "click" in the top housing.

Disassembly: Put the *screwdriver* in the top of the housing *block* and turn it carefully (arrow C) to unlock it from the coupling.

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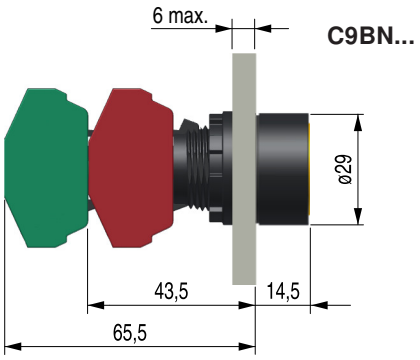
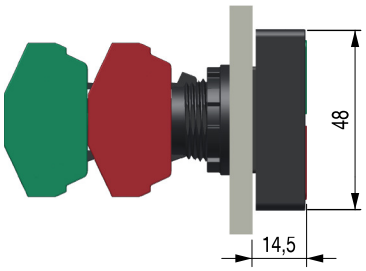
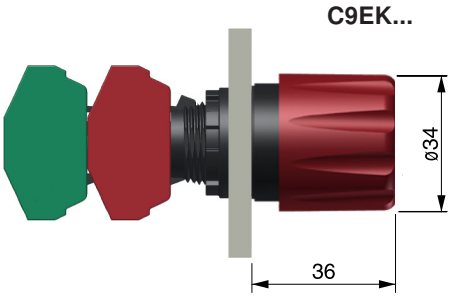
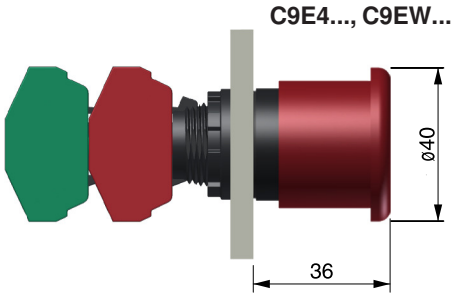
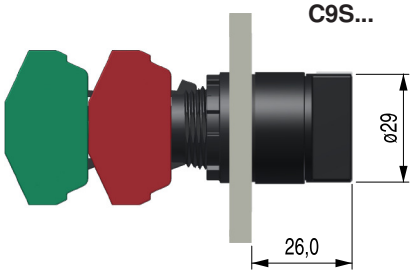
Dimensions (in mm)

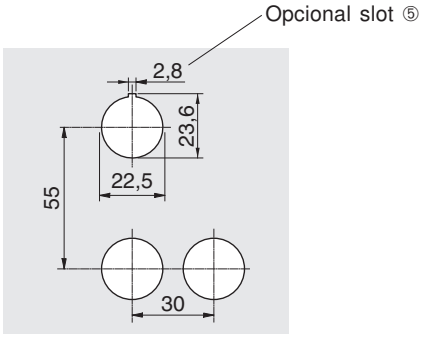










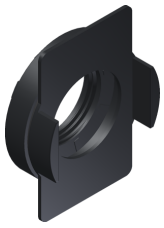


Minimum recomended distance

Accessories ①

C5AX
Tightening tool

C9DAK
Protective Cover



C9AD ②
Adaptor for panel ø30

C9AQE ③
Emergency Legend Plate

C5AEE
Pushbutton Protective Cover

C2AK
Protective Cover

C2AT
Blanking plug

C9AR ⑥
Position Washer

C9AQ ③ ④
Legend Plate

① The choice of the accessory code is related to the operator used. Contact us.
② Application: mounting of double button (C4XD. ..) in panels hole ø30mm.
③ Legend plate without stamp. Contact us about options of stamped plates.
④ Incompatible with emergency and double buttons.
⑤ Used to lock the rotation of the operator
⑥ Used to lock the rotation of the operator when assembled in holes with keyway. Applying between the panel and the nut.