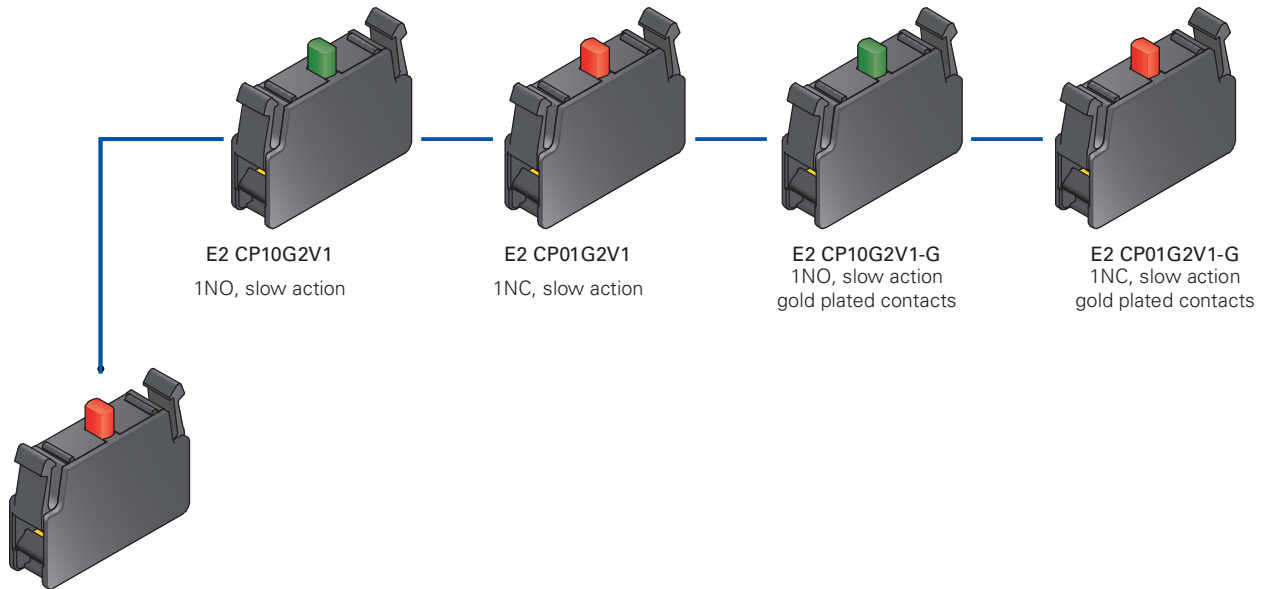
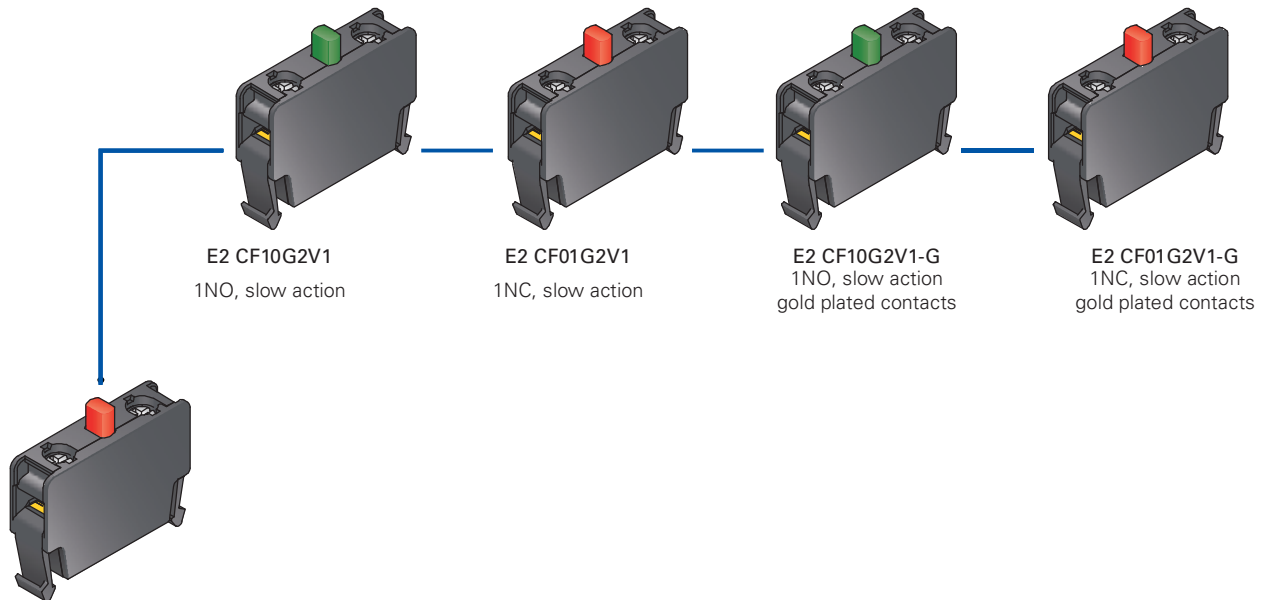


## Selection diagram

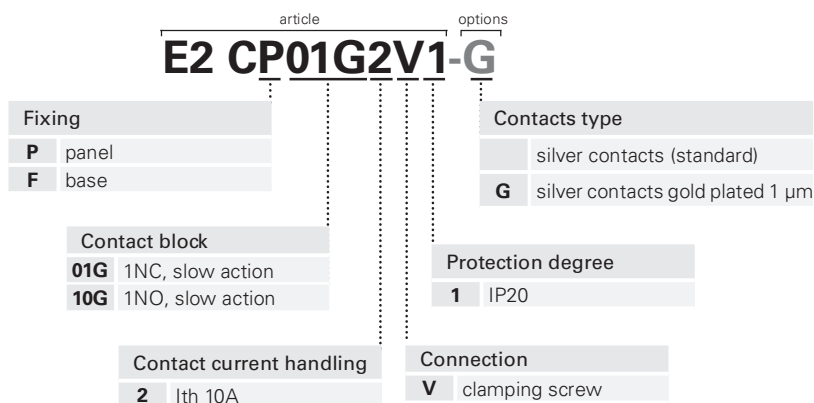
## PANEL FIXING CONTACT BLOCK



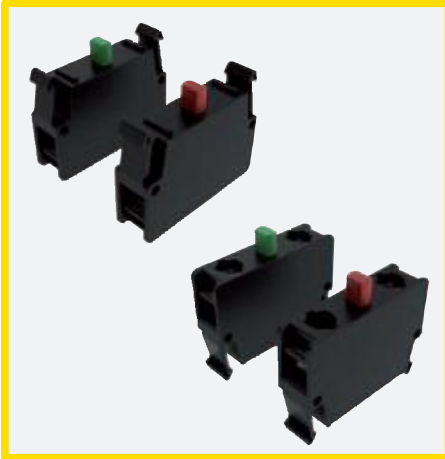
## BASE FIXING CONTACT BLOCK



Contact block code structure



**Attention!** The feasibility of a code number does not mean the effective availability of a product. Please contact our sales office.



### Main features

- High reliability contact blocks with quadruple contact points self-cleaning contacts
- Gold plated contacts version
- Positive opening NC contacts according to IEC 6097-5-1.

### Markings and quality marks:



Approval UL:



E131787

### Technical data

#### General data

Protection degree:	IP20 on the terminals according to IEC 60529
Ambient temperature:	-40°C +80°C
Mechanical endurance:	20 million operations cycles
Max operating frequency:	3600 operations cycles/hour
Utilization requirements:	see page 61

#### Contact block

Contacts commutation force:	2,6 N (NO), 1,7 N (NC)
End travel force:	3,8 N (NO), 2,6 N (NC)
Positive opening travel:	2,1 mm
Positive opening force:	17 N
Contacts material:	silver contacts (standard) silver gold plated contacts for low current (on request)
Contacts form:	"V shape" self-cleaning contacts with quadruple contact points
Conductors cross section:	min 1 x 0,5 mm <sup>2</sup> (1 x AWG 20) max 2 x 2,5 mm <sup>2</sup> (2 x AWG 14)
Screw terminal driving torque:	0,6 ... 0,8 Nm

#### In conformity with standards:

IEC 60947-1, IEC 60947-5-1, IEC 60204-1, EN 60947-1, EN 60947-5-1, EN 60204-1, UL 508, CSA 22-2 N°14

#### ⚠ Installation for safety applications:

Use only switches marked with the symbol ⊕. The safety circuit must always be connected with the **NC contacts** (normally closed contacts: 1-2) as stated in the standard EN 60947-5-1, encl. K, par. 2.

#### In conformity with requirements requested by:

Low Voltage Directive 2006/95/EC, Machinery Directive 2006/42/EC and Electromagnetic Compatibility 2004/108/EC.

#### Positive contact opening in conformity with standards:

IEC 60947-5-1, EN 60947-5-1, VDE 0660-206.

### Electrical data

Thermal current (I <sub>th</sub> ):	10 A
Rated insulation voltage (U <sub>i</sub> ):	600 Vac/dc
Protection against short circuits:	fuse 10 A 500 V type gG/gL
Rated impulse U <sub>imp</sub> :	6 kV
Pollution degree:	3

### Utilization categories

Alternate current: AC15 (50-60 Hz)					
U <sub>e</sub> (V)	24	48	120	250	400
I <sub>e</sub> (A)	6	6	6	6	3
Direct current: DC13					
U <sub>e</sub> (V)	24	125	250		
I <sub>e</sub> (A)	2,5	0,6	0,3		

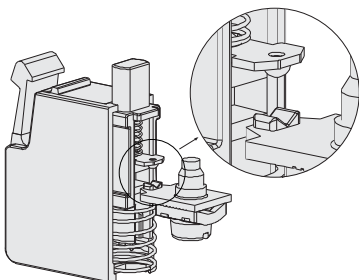
### General characteristics

#### Positive opening

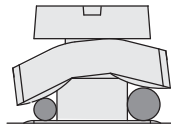
NC contact blocks are suitable for safety application, with positive opening contacts according to IEC 60947-5-1.

#### High reliability self-cleaning contacts

"V shape" self-cleaning contacts with quadruple contact points. This shape, thanks to its quadruple support, allows to reduce the probability of contact wrong switching. Furthermore it highly improves the contacts reliability in case of dust.



#### Clamping screw plates



The clamping screw plates of the contact blocks have a particular "roofing tile" structure and are connected loosely to the clamping screw. In this way, during the wires fixing, the clamping screw plate is able to suit to cables of different diameter (see picture) and tends to tighten the wires toward the screw instead of permitting them to escape towards the outside.

#### Contact material

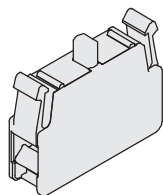
The contact blocks are supplied with standard silver electric contacts. They can also be supplied with a special gold-plated surface, with one micron of total gold thickness. This type of treatment can be useful in environments which are aggressive against silver (very humid or sulphurous atmospheres) and in case of very small electric charges, usually with low voltages and supply currents. The gold thickness has been studied to endure a high number of mechanical cycles.

## Data type approved by UL

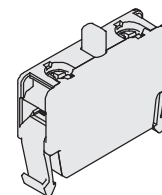
Utilization category: A600 pilot duty  
(720 VA, 120-600 Vac)  
Q300 pilot duty  
(69 VA, 125-250 Vdc)

Note:  
- Use copper wire (Cu) 60 or 75 °C rigid or flexible with cross section 12-20 AWG.  
- Terminals tightening torque 7,1 Lb In (0,8 Nm).

## Contact block selection table

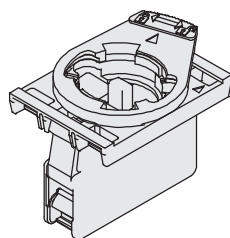


Contact block		Panel fixing
1NC, slow action $\rightarrow$		<b>E2 CP01G2V1</b> 0 1.1 $\varnothing$ 2.1 5
1NO, slow action		<b>E2 CP10G2V1</b> 0 2.5 5

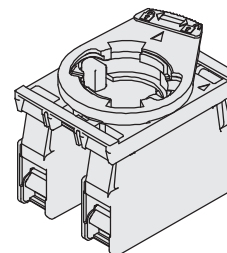


Contact block		Base fixing
1NC, slow action $\rightarrow$		<b>E2 CF01G2V1</b> 0 1.1 $\varnothing$ 2.1 5
1NO, slow action		<b>E2 CF10G2V1</b> 0 2.5 5

## Complete units with contact block and fixing adapter



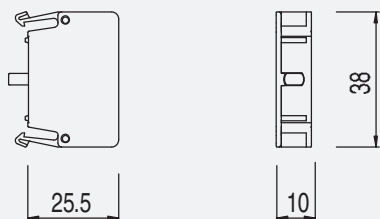
Contacts			Panel fixing
pos 2	pos 3	pos 1	
-	1NO	-	<b>E2 AC-XXBC0010</b> E2 1BAC11 + E2 CP10G2V1
-	1NC $\rightarrow$	-	<b>E2 AC-XXBC0009</b> E2 1BAC11 + E2 CP01G2V1



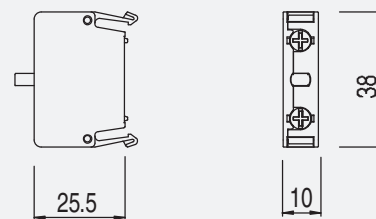
Contacts			Panel fixing
pos 2	pos 3	pos 1	
1NO	-	1NO	<b>E2 AC-XXBC0012</b> E2 1BAC11 + E2 CP10G2V1 + E2 CP10G2V1
1NC $\rightarrow$	-	1NC $\rightarrow$	<b>E2 AC-XXBC0011</b> E2 1BAC11 + E2 CP01G2V1 + E2 CP01G2V1
1NC $\rightarrow$	-	1NO	<b>E2 AC-XXBC0028</b> E2 1BAC11 + E2 CP01G2V1 + E2 CP10G2V1

## Dimensions

### Panel fixing contact block



### Base fixing contact block



## Accessories

$\rightarrow$  More ACCESSORIES at page 57

All measures in the drawings are in mm

Items with code on the **green** background are available in stock

$\rightarrow$  2D and 3D files available on [www.pizzato.it](http://www.pizzato.it)

