

Одноконтактные блоки с самоконтролем

Технические характеристики

По вопросам продаж и поддержки обращайтесь:

Алматы (727)345-47-04
Ангарск (3955)60-70-56
Архангельск (8182)63-90-72
Астрахань (8512)99-46-04
Барнаул (3852)73-04-60
Белгород (4722)40-23-64
Благовещенск (4162)22-76-07
Брянск (4832)59-03-52
Владивосток (423)249-28-31
Владикавказ (8672)28-90-48
Владимир (4922)49-43-18
Волгоград (844)278-03-48
Вологда (8172)26-41-59
Воронеж (473)204-51-73
Екатеринбург (343)384-55-89

Иваново (4932)77-34-06
Ижевск (3412)26-03-58
Иркутск (395)279-98-46
Казань (843)206-01-48
Калининград (4012)72-03-81
Калуга (4842)92-23-67
Кемерово (3842)65-04-62
Киров (8332)68-02-04
Коломна (4966)23-41-49
Кострома (4942)77-07-48
Краснодар (861)203-40-90
Красноярск (391)204-63-61
Курск (4712)77-13-04
Курган (3522)50-90-47
Липецк (4742)52-20-81

Магнитогорск (3519)55-03-13
Москва (495)268-04-70
Мурманск (8152)59-64-93
Набережные Челны (8552)20-53-41
Нижний Новгород (831)429-08-12
Новокузнецк (3843)20-46-81
Ноябрьск (3496)41-32-12
Новосибирск (383)227-86-73
Омск (3812)21-46-40
Орел (4862)44-53-42
Оренбург (3532)37-68-04
Пенза (8412)22-31-16
Петрозаводск (8142)55-98-37
Псков (8112)59-10-37
Пермь (342)205-81-47

Ростов-на-Дону (863)308-18-15
Рязань (4912)46-61-64
Самара (846)206-03-16
Санкт-Петербург (812)309-46-40
Саратов (845)249-38-78
Севастополь (8692)22-31-93
Саранск (8342)22-96-24
Симферополь (3652)67-13-56
Смоленск (4812)29-41-54
Сочи (862)225-72-31
Ставрополь (8652)20-65-13
Сургут (3462)77-98-35
Сыктывкар (8212)25-95-17
Тамбов (4752)50-40-97
Тверь (4822)63-31-35

Тольятти (8482)63-91-07
Томск (3822)98-41-53
Тула (4872)33-79-87
Тюмень (3452)66-21-18
Ульяновск (8422)24-23-59
Улан-Удэ (3012)59-97-51
Уфа (347)229-48-12
Хабаровск (4212)92-98-04
Чебоксары (8352)28-53-07
Челябинск (351)202-03-61
Череповец (8202)49-02-64
Чита (3022)38-34-83
Якутск (4112)23-90-97
Ярославль (4852)69-52-93

Россия +7(495)268-04-70

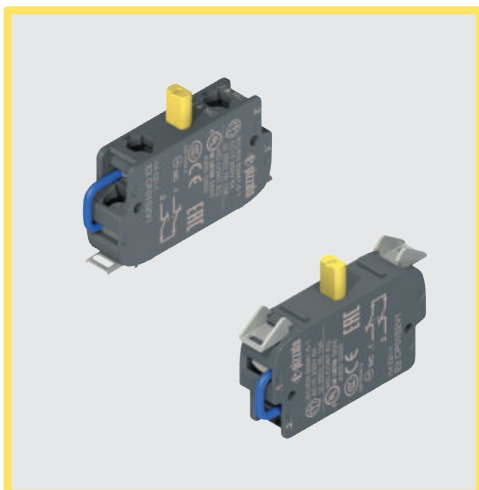
Казахстан +(727)345-47-04

Беларусь +(375)257-127-884

Узбекистан +998(71)205-18-59

Киргизия +996(312)96-26-47

эл.почта: poz@nt-rt.ru || сайт: <https://pizzato.nt-rt.ru/>



Main features

- Self-monitored contact block. Electrical circuit opening indicates the detachment from the device
- Versions with gold-plated contacts
- Positive opening NC contacts acc. to IEC 60947-5-1

Quality marks:



IMQ approval: CA02.04805
 UL approval: E131787
 CCC approval: 2021000305000106
 EAC approval: RU C-IT.YT03.B.00035/19

Technical data

General data

Protection degree: IP20 acc. to EN 60529 at the terminals
 Ambient temperature: -40°C ... +80°C
 Mechanical endurance: 20 million operating cycles
 Max. actuation frequency: 3600 operating cycles/hour
 Utilization requirements: see page 169

Contact block

Switching force of the contacts: 2.9 N
 Actuating force at limit of travel: 5 N
 Positive opening force: 17 N
 Actuation speed: min 1 mm/s
 max. 0.5 m/s
 40,000,000 (NC)
 Silver contacts (standard)
 For low current: silver contacts with 1 µm gold coating (on request)
 "V-shape" self-cleaning contacts with quadruple contact point

Contact type:

Cable cross section:

Cable stripping length:

Tightening torque of the terminal screws: 0.6 ... 0.8 Nm

In compliance with standards:

IEC 60947-1, IEC 60947-5-1, IEC 60204-1, EN 60947-1, EN 60947-5-1, EN 60204-1, EN IEC 63000, UL 508, CSA C22.2 No. 14, GB/T14048.5

⚠ Installation for safety applications:

Use only contact blocks marked with the symbol ⊕. The safety circuit must always be connected to **NC contacts** (normally closed contacts: .1-.2)

Compliance with the requirements of:

Low Voltage Directive 2014/35/EU, EMC Directive 2014/30/EU, RoHS Directive 2011/65/EU.

Positive contact opening in conformity with standards:

IEC 60947-5-1, EN 60947-5-1.

Electrical data

Thermal current (I_{th}): 10 A
 Rated insulation voltage (U_i): 250 Vac/dc
 Protection against short circuits: type gG/gL fuse 10 A 500 V
 Rated impulse withstand voltage (U_{imp}): 4 kV
 Pollution degree: 3

Utilization category

Alternating current: AC15 (50 ... 60 Hz)

U _e (V)	24	48	120	250
I _e (A)	6	6	6	6

Direct current: DC13

U _e (V)	24	48	125	250
I _e (A)	2.5	1.3	0.6	0.3

Functioning of self-monitored contact blocks

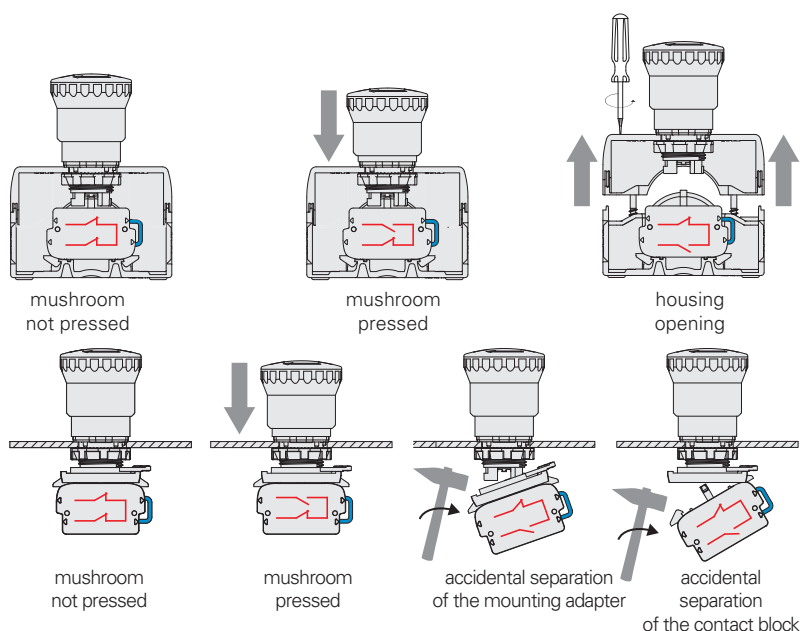
The operating principle of the self-monitoring contact blocks ensures that their associated control devices are free from faults and malfunctions caused by contacts separating, and that the safety function remains permanently available during machine operation.

Characterised by two NC contacts connected in series; during normal operation, both contacts are in the closed position.

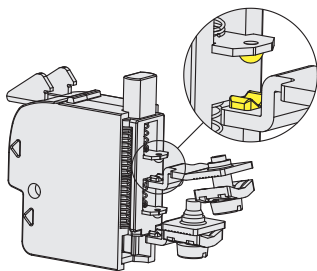
If the emergency stop button is pressed, the direct action of the force exerted on the control device opens the first contact (positive opening); this interrupts the safety circuit, while the second contact remains closed.

If the housing cover is removed (in the case of base-mounted contact blocks), or if the contact block or mounting adapter becomes unintentionally separated (in the case of panel-mounted contact blocks), the second contact opens, which always interrupts the same safety circuit.

When using the machine in this way, the operator can always identify any hidden faults that have occurred internally to the electrical enclosures.



High-reliability self-cleaning contacts



"V-shape" self-cleaning contacts with quadruple contact point. This type of shape, thanks to the presence of the double contact point, makes it possible to drastically reduce the probability of contact commutation failure. In addition to this, it improves considerably the reliability in the presence of dust.

Features approved by UL

Electrical ratings: A300 pilot duty (720 VA, 120-240 V ac)
Q300 pilot duty (69 VA, 125-250 V dc)

Note:
Use 60 or 75 °C copper (CU) conductor and wire size range 16-22 AWG, stranded or solid.
The terminal tightening torque of 7.1 Lb In (0.8 Nm).

Please contact our technical department for the list of approved products.

Positive opening



All NC contacts are suitable for safety applications.
The NC contacts are positive opening contacts acc. to IEC 60947-5-1.

Features approved by IMQ

Rated insulation voltage (U_i): 250 V
Conventional free air thermal current (I_{th}): 10 A
Rated impulse withstand voltage (U_{imp}): 4 kV
Protection degree of the housing: IP20
Utilization category: AC-15
Operating voltage (U_e): 250 Vac (50/60 Hz)
Operating current (I_e): 6 A

Forms of the contact element: Y
Positive opening of contacts on contact blocks 01S
In compliance with standards: EN 60947-1, EN 60947-5-1, fundamental requirements of the Low Voltage Directive 2014/35/EU.

Please contact our technical department for the list of approved products.

Selection table for contact blocks

Packs of 5 pcs.



Contact block	Panel mounting Screw connection
1NC  slow action self-monitored 	E2 CP01S2V1 2.3 1.1 0 1.1  2.1 5

The self-monitoring contact block with panel mounting can be installed to any position on the 3-slot mounting adapter, and in the two central positions only on the 4-slot mounting adapter.



Contact block	Base mounting Screw connection
1NC  slow action self-monitored 	E2 CF01S2V1 2.3 1.1 0 1.1  2.1 5

The self-monitoring contact block with base mounting can be installed only in the central position under the device. The central position on the bottom of the housing is identified with number 3.

Complete units with contact block and mounting adapter



Contacts			Panel mounting Screw connection
pos. 2	pos. 3	pos. 1	
-	1NC  SELF-MONITORED	-	E2 AC-XXBC0139 E2 1BAC11 + E2 CP01S2V1

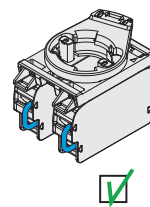
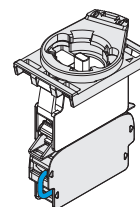
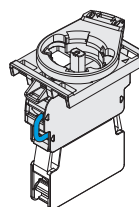
Other combinations on request.

Installation of several single, double and self-monitored contact blocks

Always install self-monitored contact blocks directly on the mounting adapter.

Do not install self-monitored contact blocks on standard contact blocks. Forbidden application!

Per each emergency stop button no more than two self-monitored contact blocks can be installed.



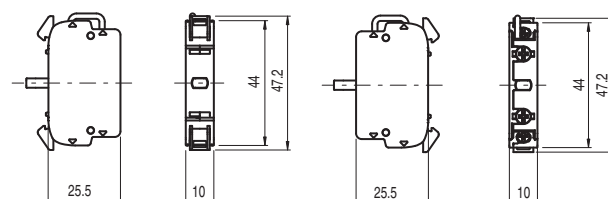
Dust protection

Packs of 50 pcs.

Article	Description
VE PR3A70	Transparent dust protection for E2 series contact blocks. Suitable for all panel mounting contact blocks.

Dimensional drawings

All values in the drawings are in mm



По вопросам продаж и поддержки обращайтесь:

Алматы (727)345-47-04
Ангарск (3955)60-70-56
Архангельск (8182)63-90-72
Астрахань (8512)99-46-04
Барнаул (3852)73-04-60
Белгород (4722)40-23-64
Благовещенск (4162)22-76-07
Брянск (4832)59-03-52
Владивосток (423)249-28-31
Владикавказ (8672)28-90-48
Владимир (4922)49-43-18
Волгоград (844)278-03-48
Вологда (8172)26-41-59
Воронеж (473)204-51-73
Екатеринбург (343)384-55-89

Иваново (4932)77-34-06
Ижевск (3412)26-03-58
Иркутск (395)279-98-46
Казань (843)206-01-48
Калининград (4012)72-03-81
Калуга (4842)92-23-67
Кемерово (3842)65-04-62
Киров (8332)68-02-04
Коломна (4966)23-41-49
Кострома (4942)77-07-48
Краснодар (861)203-40-90
Красноярск (391)204-63-61
Курск (4712)77-13-04
Курган (3522)50-90-47
Липецк (4742)52-20-81

Магнитогорск (3519)55-03-13
Москва (495)268-04-70
Мурманск (8152)59-64-93
Набережные Челны (8552)20-53-41
Нижний Новгород (831)429-08-12
Новокузнецк (3843)20-46-81
Ноябрьск (3496)41-32-12
Новосибирск (383)227-86-73
Омск (3812)21-46-40
Орел (4862)44-53-42
Оренбург (3532)37-68-04
Пенза (8412)22-31-16
Петрозаводск (8142)55-98-37
Псков (8112)59-10-37
Пермь (342)205-81-47

Ростов-на-Дону (863)308-18-15
Рязань (4912)46-61-64
Самара (846)206-03-16
Санкт-Петербург (812)309-46-40
Саратов (845)249-38-78
Севастополь (8692)22-31-93
Саранск (8342)22-96-24
Симферополь (3652)67-13-56
Смоленск (4812)29-41-54
Сочи (862)225-72-31
Ставрополь (8652)20-65-13
Сургут (3462)77-98-35
Сыктывкар (8212)25-95-17
Тамбов (4752)50-40-97
Тверь (4822)63-31-35

Тольятти (8482)63-91-07
Томск (3822)98-41-53
Тула (4872)33-79-87
Тюмень (3452)66-21-18
Ульяновск (8422)24-23-59
Улан-Удэ (3012)59-97-51
Уфа (347)229-48-12
Хабаровск (4212)92-98-04
Чебоксары (8352)28-53-07
Челябинск (351)202-03-61
Череповец (8202)49-02-64
Чита (3022)38-34-83
Якутск (4112)23-90-97
Ярославль (4852)69-52-93

Россия +7(495)268-04-70

Казахстан +(727)345-47-04

Беларусь +(375)257-127-884

Узбекистан +998(71)205-18-59

Киргизия +996(312)96-26-47

эл.почта: poz@nt-rt.ru || сайт: <https://pizzato.nt-rt.ru/>