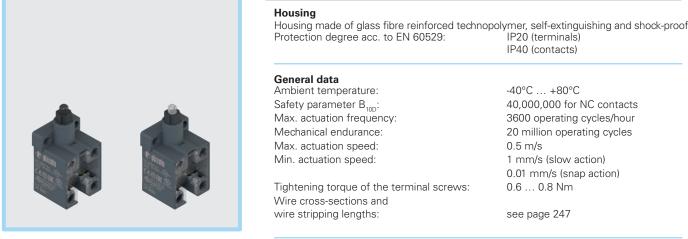
Technical data



Main features

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- Technopolymer housing
- Protection degree IP20 (terminals), IP40 (contacts)
- 14 contact blocks available
- Actuators with plastic or metal plunger
- Contact block with positive opening ⊕
- For internal use in PA, PX, PC series foot switches

Quality marks:



IMQ approval:	CA02.06217
UL approval:	E131787
CCC approval:	2020970305002285
EAC approval:	RU C-IT.YT03.B.00035/19

Installation for safety applications:

Use only switches marked with the symbol 🕀 next to the product code. Always connect the safety circuit to the **NC contacts** (normally closed contacts: 11-12, 21-22 or 31-32) as required by EN ISO 14119, paragraph 5.4 for specific interlock applications and EN ISO 13849-2 table D3 (well-tried components) and D.8 (fault exclusions) for safety applications in general. Actuate the switch at least up to the positive opening travel reported in the travel diagrams. Actuate the switch at least with the positive opening force, reported in brackets below each article, next to the minimum force value

In compliance with standards:

UL 508, CSA 22.2 No. 14, EN 60947-1, EN 60947-5-1

Positive contact opening in conformity with standards:

Compliance with the requirements of:

Low Voltage Directive 2014/35/EU,

EMC Directive 2014/30/EU,

RoHS Directive 2011/65/EU.

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

GB/T14048 5 Approvals:

🛆 If not expressly indicated in this chapter, for correct installation and utilization of all articles see the instructions given on pages 225 to 240.

Electrical data

Thermal current (I,): Rated insulation voltage (U): Rated impulse withstand voltage (U_{imp}): Conditional short circuit current: Protection against short circuits: Pollution degree:

Features approved by IMQ

400 Vac (for contact blocks [B] 11, 37)

Conventional free air thermal current (Ith):

Bated insulation voltage (Ui)

Protection against short circuits: Rated impulse withstand voltage (Uimp):

Protection degree of the housing:

MV terminals (screw terminals)

Pollution degree: Utilization category:

Operating voltage (Ue): Operating current (Ie):

6 kV type aM fuse 10 A 500 V 3

10 A 500 Vac 600 Vdc 1000 A acc. to EN 60947-5-1

Alternating current: AC15 (50÷60 Hz) Ue (V) 250 400 500 le (A) 6 4 1 Direct current: DC13 Ue (V) 125 250 24 le (A) 3 0.55 0.3

Utilization category

IP20 (terminals) IP40 (contacts)

-40°C ... +80°C

0.5 m/s

IEC 60947-5-1, EN 60947-5-1, EN 60947-1, IEC 60204-1, EN 60204-1, EN ISO 14119,

EN ISO 12100, IEC 60529, EN 60529, EN IEC 63000, UL 508, CSA 22.2 No.14,

40,000,000 for NC contacts

3600 operating cycles/hour 20 million operating cycles

1 mm/s (slow action) 0.01 mm/s (snap action)

0.6 ... 0.8 Nm

see page 247

Features approved by UL

Electrical ratings: Q300 (69 VA, 125-250 Vdc) A600 (720 VA, 120-600 Vac) Housing features: open type. For all contact blocks use 60 or 75°C copper (Cu) conductors, rigid or flexible, wire size 12, 14 AWG. Tightening torque for terminal screws of 7.1 lb in (0.8 Nm).

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

Forms of the contact element: Zb, Y+Y, X+X, Y, X

Positive opening contacts on contact blocks [B] 5, 6, 7, 9, 11, 13, 14, 17, 18, 19, 37, 66 In compliance with standards: EN 60947-1, EN 60947-5-1, fundamental requirements of the Low Voltage Directive 2014/35/EU

10 A

6 kV

IP20

AC15

4 A

type aM fuse 10 A 500 V

400 Vac (50/60 Hz)

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

500 Vac (for contact blocks [B] 5, 6, 7, 9, 10, 12, 13, 14, 15, 17, 18, 19, 66, 67)

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Description



Contact block with captive screws, finger protection and self-lifting clamping screw plates. Provided with positive opening NC contacts for safety applications. Provided with twin bridge contacts, they are particularly suitable for high-reliability applications. Suitable for installation inside PA, PX and PC series foot switches (for more information see the General Catalogue HMI).

Dimensional drawings

Contact type:	Technopolymer plunger			Metal plunger			
R = snap action = slow action = slow action Image: Image bound of the slow action, shifted slow action, shifted and spaced Image: Image bound of the slow action, close slow action, close Image bound of the slow action, close slow action, close							
	Article		Contacts	Article		Contacts	Travel diagram
R	VF B501	€	1NO+1NC	VF B502	€	1NO+1NC	0 2.2 ⊖4 6 1.1
L	VF B601	€	1NO+1NC	VF B602	€	1NO+1NC	0 <u>1.5</u> ⊖ <u>3</u> 6 3.4
LO	VF B701	⊖	1NO+1NC	VF B702	↔	1NO+1NC	0 3.1 0 4.6 6
L	VF B901	€	2NC	VF B902	€	2NC	0 2.9 ⁽³⁾ 4.4 6
L	VF B1001		2NO	VF B1002		2NO	0 1.4 6
R	VF B1101	€	2NC	VF B1102	€	2NC	
R	VF B1201		2NO	VF B1202		2NO	¢ 2.9 6 1.5
LV	VF B1301	€	2NC	VF B1302	€	2NC	0 0.8 \ominus 2.3 6 3 \ominus 4.5
LS	VF B1401	€	2NC	VF B1402	€	2NC	0 <u>1.4</u> \ominus 2.9 6 3 \ominus 4.5
LS	VF B1501		2NO	VF B1502		2NO	
LA	VF B1801	€	1NO+1NC	VF B1802	€	1NO+1NC	0 1.5 \ominus 3 6
L	VF B3701	€	1NO+1NC	VF B3702	€	1NO+1NC	0 <u>3.4</u> \ominus 4.9 1.5 6
L	VF B6601	€	1NC	VF B6602	€	1NC	0 1.4 ⊖2.9 6
L	VF B6701		1NO	VF B6702		1NO	0 1.4 6
Max. speed	0,5 m/s			0,5 m/s			
Actuating force	8) N 🔶)	8 N (20 N ⊖)				

Legend Closed contact ⊕ Open contact ⊕ Positive opening travel acc. to IEC 60947-5-1 ▶ Pressing the switch ◄ Releasing the switch

Code structure



Contact block

- 5 1NO+1NC, snap action
- 6 1NO+1NC, slow action
- 7 1NO+1NC, slow action, make before break
- 9 2NC, slow action10 2NO, slow action
- 11 2NC, snap action
- 12 ONO snap action
- 12 2NO, snap action

Contact type

- silver contacts (standard)
- G silver contacts with 1 µm gold coating
- **G1** silver contacts with 2.5 μ m gold coating

Actuators

- **01** with technopolymer plunger (standard)
- 02 with metal plunger

→ The 2D and 3D files are available at www.pizzato.com

All values in the drawings are in mm

