



Main data

- Polymer housing with positive opening ☺
- Protection degree IP20 (terminals), IP40 (contacts)
- 11 contact blocks available
- Actuator with plastic or metal push button
- Suitable for foot switches PA, PX series

Markings and quality marks:



Approval UL: E131787
 Approval CCC: 2013010305600704
 Approval GOST: POCC IT.AB24.B04512

Technical data

Housing

Made of glass-reinforced polymer, self-extinguishing, shock-proof thermoplastic resin
 Protection degree: IP20 (terminals), IP40 (contacts) according to EN 60529

General data

Ambient temperature: from -25°C to +80°C
 Version for operation in ambient temperature from -40°C to +80° C on request
 Max actuation frequency: 3600 operations cycles¹/hour
 Mechanical endurance: 20 million operations cycles¹
 Maximum actuation speed: 0,5 m/s
 Minimum actuation speed: 1 mm/s (slow action)
 0,01 mm/s (snap action)
 Driving torque for installation: see pages 7/1-7/12
 (1) One operation cycle means two movements, one to close and one to open contacts, as foreseen by EN 60947-5-1 standard.

Cross section of the conductors (flexible copper wire)

Contact blocks 5, 6, 7, 9, 10, 11, 12, 13, 14, 15, 18, 37, 66, 67: min. 1 x 0,5 mm² (1 x AWG 20)
 max. 2 x 2,5 mm² (2 x AWG 14))

In conformity with standards:

IEC 60947-5-1, EN 60947-5-1, EN 60947-1, IEC 60204-1, EN 60204-1, EN 1088, EN ISO 12100-1, EN ISO 12100-2, IEC 60529, EN 60529, NFC 63-140, VDE 0660-200, VDE 0113, .

Approvals:

UL 508

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.

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: 11-12, 21-22 or 31-32) as stated in the **standard EN 60947-5-1, encl. K, par. 2**. The switch must be actuated with **at least up to the positive opening travel** shown in the travels diagrams. The switch must be actuated **at least with the positive opening force**, shown in brackets, underneath each article, near the value of the min. force.

⚠ **If not expressly indicated in this chapter, for the right installation and the correct utilization of all articles see requirements indicated from page 7/1 to page 7/12.**

Electrical data

Thermal current (I_{th}): 10 A
 Rated insulation voltage (U_i): 500 Vac 600 Vdc
 Rated impulse withstand voltage (U_{imp}): 6 kV
 Conditional short circuit current: 1000 A according to EN 60947-5-1
 Protection against short circuits: fuse 10 A 500 V type aM
 Pollution degree: 3

Utilization categories

Alternate current: AC15 (50-60 Hz)

U _e (V)	250	400	500
I _e (A)	6	4	1

 Direct current: DC13

U _e (V)	24	125	250
I _e (A)	6	1,1	0,4

Data type approved by UL

Utilization categories Q300 (69 VA, 125-250 Vdc)
 A600 (720 VA, 120-600 Vac)
 Data of the housing type 1, 4X "indoor use only", 12, 13
 For all contact blocks use 60 or 75 °C copper (Cu) conductor and wire size No. 12-14 AWG. Terminal tightening torque of 7,1 lb in (0,8 Nm).

In conformity with standard: UL 508

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

Dimensional drawings

		Polymer push button	Metal push button		
Contacts type: R = snap action L = slow action LO = slow action overlapped LS = slow action shifted LV = slow action shifted and spaced LA = slow action closer					
Contact blocks					
5	R	VF B501 → 1NO+1NC	VF B502 → 1NO+1NC		
6	L	VF B601 → 1NO+1NC	VF B602 → 1NO+1NC		
7	LO	VF B701 → 1NO+1NC	VF B702 → 1NO+1NC		
9	L	VF B901 → 2NC	VF B902 → 2NC		
10	L	VF B1001 2NO	VF B1002 2NO		
11	R	VF B1101 → 2NC	VF B1102 → 2NC		
12	R	VF B1201 2NO	VF B1202 2NO		
13	LV	VF B1301 → 2NC	VF B1302 → 2NC		
14	LS	VF B1401 → 2NC	VF B1402 → 2NC		
15	LS	VF B1501 2NO	VF B1502 2NO		
18	LA	VF B1801 → 1NO+1NC	VF B1802 → 1NO+1NC		
37	L	VF B3701 → 1NO+1NC	VF B3702 → 1NO+1NC		
66	L	VF B6601 → 1NC	VF B6602 → 1NC		
67	L	VF B6701 1NO	VF B6702 1NO		
Max speed		0,5 m/s			
Min. force		8 N (20 N →)			

Legend

Closed contact |
 Opened contact |
 Positive opening travel |
 Pushing the switch /
 Releasing the switch

Code structure

article	options
VF B501-G	
5 1NO+1NC, snap action	Contacts type
6 1NO+1NC, slow action	silver contacts (standard)
7 1NO+1NC, slow action overlapped	G silver contacts gold plated 1 μm
9 2NC, slow action	
10 2NO, slow action	Actuators
11 2NC, snap action	01 with polymer push button
12 2NO, snap action	02 with metal push button
13 2NC, slow action shifted and spaced	
14 2NC, slow action shifted	
15 2NO, slow action shifted	
18 1NO+1NC, slow action closer	
37 1NO+1NC, snap action	
66 1NC, snap action	
67 1NO, snap action	

Accessories See page 6/1

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

X-ON Electronics

Largest Supplier of Electrical and Electronic Components

Click to view similar products for [Limit Switches](#) category:

Click to view products by [Pizzato](#) manufacturer:

Other Similar products are found below :

[6LS2-4PG](#) [5ML1-E1](#) [5ML31](#) [LZG1](#) [LZL1-6C](#) [622EN114-R](#) [622EN18-6](#) [622EN224-6B](#) [622EN230](#) [622EN237-R](#) [622EN69-3](#) [622EN85-RB](#)
[MA-10019](#) [6PA109](#) [7LS51](#) [83547001](#) [83725002](#) [83830001](#) [83840001](#) [83840701](#) [83841001](#) [83870104](#) [83881140](#) [8AS42](#) [8LS10](#) [8LS125-](#)
[4PG](#) [8LS152-4PGN20](#) [914CE16-3A](#) [914CE3-3L1](#) [915PA10](#) [91MCE16-P2O](#) [924CE16-Y3](#) [924CE1-S6](#) [924CE1-T25A](#) [924CE1-T3](#) [924CE1-](#)
[T9A](#) [924CE2-T9](#) [924CE31-Y20-X5](#) [924CE31-Y3L1](#) [GL-10054](#) [GL-85710](#) [GL-85714](#) [GLAB26J2B](#) [GLDB03C-6](#) [GLZ324](#) [PS21R-](#)
[NT11N7-YK0](#) [D4A-1106N](#) [D4A-3E02N](#) [D4A-4510N](#) [D4A-4516N](#)