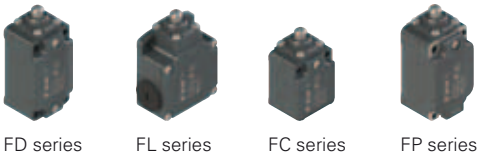




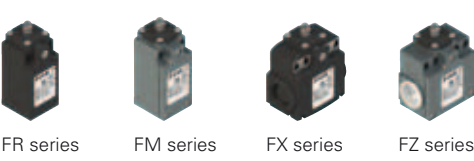
**2** Position switches

**2A** Position switches for heavy duty



► 3      ► 3      ► 3      ► 3

**2B** Position switches for normal duty



► 5      ► 5      ► 5      ► 5

**3** Man-machine interface

**3A**  
Single foot switches  
PX-PA series



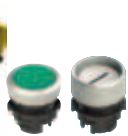
► 13

**3B**  
Modular multiple foot switches  
PC series



► 14

**3C**  
Pushbuttons  
PU-PL series



► 16

**3C**  
Double/triple/  
quadruple  
pushbuttons  
PD-PT-PQ series



► 16

**3D**  
Selectors  
SE-SL-SC  
series



► 17

**3E**  
Emergency  
pushbuttons  
PE series



► 18

**3F**  
Luminous disc  
VE DL series



► 18

**3G**  
Illuminated  
lights  
E2 IL series



► 19

**3H**  
Monolith  
illuminated  
lights  
E6 IL series



► 19

**4** Safety devices

**4A** Safety switches with separate actuator



For heavy duty applications

► 25



For normal duty applications

► 25

**4B** Safety magnetic sensors



Coded magnetic sensors

► 26

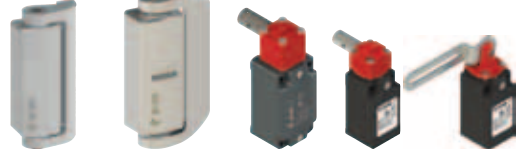
**4C** Safety sensors with RFID technology



Coded magnetic sensors

► 26

**4D** Hinge operating safety switches



Hinge switches

► 27

Stainless steel hinge switches

► 27

For hinged protections

► 27

With slotted hole lever

► 27

**5** Safety modules



For emergency stop and gate monitoring CS AR series

► 32



For emergency stop, gate monitoring, safety mats and safety edges with 4 wires technology CS AR series

► 33



For emergency stop and gate monitoring with delayed contacts CS AT series

► 33



Safety timer module CS FS series

► 33

**6** Accessories ► 37





**2B** Position switches for normal duty applications, with reset



FR series

► 8

**2C** Switches for special applications



Electronic contact block  
High temperature  
For electric boards

► 8    ► 8    ► 8

**2D** Modular prewired switches



NA-NB series

► 9



NF series

► 9



MK series

► 11



**3I** USB and RJ45 sockets



► 19

**3J** Potentiometers E6 DM series



► 20

**3K** Buzzer E6 IS series



► 20

**3L** Single Contact blocks CP-CF series



► 20

**3M** Double contact blocks CP-CF series



► 21

**3N** LED holder LP-LF series



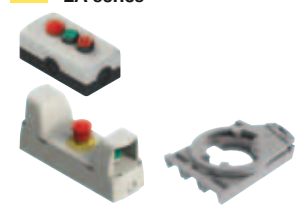
► 21

**3O** Protected contact blocks FR, FK, FX series



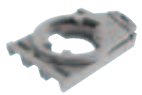
► 22

**3P** Boxes ES series  
**3Q** Boxes EA series



► 22/23/24

**3R** Accessories



► 24



**4E** Switches with separate actuator with lock



With solenoid FS series  
With manual mechanical delay  
With lock  
With solenoid FG series  
With solenoid and RFID technology NG Series

► 28    ► 28    ► 28    ► 29    ► 29

**4F** Safety Handle



VF AP-P Series  
AP Series  
VF AP-S Series

► 30

**4G** Rope switches



With or without reset for emergency stop or for simple stop

► 31

**3P** Boxes with emergency push button



► 23



Safety modules for bimanual controls or synchronism check CS DM series

► 34



Standstill monitor safety module CS AM series

► 34



Expansion modules with output contacts CS ME series

► 34



Multifunction safety modules CS MP / CS MF series

► 35 / 36

The products here listed represent only a selection of Pizzato Elettrica's production. In order to discover the complete range of productions, please consult the general catalogue



## FD series

Housing made of metal  
 One conduit entry M20x1.5  
 Protection degree IP67  
 Marks:   
 Ambient temperature: -25°C ... +80°C

Snap action contacts 1NO+1NC  
 Slow action contacts 1NO+1NC  
 Slow action contacts 2NC  
 Slow action contacts 1NO+2NC  
 Snap action contacts 2NC-2NO



FD 501-M2	FD 502-M2	FD 505-M2	FD 510-M2	FD 511-M2	FD 515-M2	FD 516-M2	FD 520-M2
FD 601-M2	FD 602-M2	FD 605-M2	FD 610-M2	FD 611-M2	FD 615-M2	FD 616-M2	
FD 901-M2	FD 902-M2	FD 905-M2	FD 910-M2	FD 911-M2	FD 915-M2	FD 916-M2	
FD 2001-M2	FD 2002-M2	FD 2005-M2	FD 2010-M2	FD 2011-M2	FD 2015-M2	FD 2016-M2	FD 2020-M2
FD 201-M2	FD 202-M2	FD 205-M2	FD 210-M2	FD 211-M2	FD 215-M2	FD 216-M2	FD 220-M2

## FL series

Housing made of metal  
 Three conduit entries M20x1.5  
 Protection degree IP67  
 Marks:   
 Ambient temperature: -25°C ... +80°C

Snap action contacts 1NO+1NC  
 Slow action contacts 1NO+1NC  
 Slow action contacts 2NC  
 Slow action contacts 1NO+2NC  
 Snap action contacts 2NC-2NO



FL 501-M2	FL 502-M2	FL 505-M2	FL 510-M2	FL 511-M2	FL 515-M2	FL 516-M2	FL 520-M2
FL 601-M2	FL 602-M2	FL 605-M2	FL 610-M2	FL 611-M2	FL 615-M2	FL 616-M2	
FL 901-M2	FL 902-M2	FL 905-M2	FL 910-M2	FL 911-M2	FL 915-M2	FL 916-M2	
FL 2001-M2	FL 2002-M2	FL 2005-M2	FL 2010-M2	FL 2011-M2	FL 2015-M2	FL 2016-M2	FL 2020-M2
FL 201-M2	FL 202-M2	FL 205-M2	FL 210-M2	FL 211-M2	FL 215-M2	FL 216-M2	FL 220-M2

## FC series

Housing made of metal  
 One conduit entry M20x1.5  
 Protection degree IP67  
 Marks:   
 Ambient temperature: -25°C ... +80°C

Snap action contacts 1NO+1NC  
 Slow action contacts 1NO+1NC  
 Slow action contacts 2NC



FC 301-M2	FC 302-M2	FC 305-M2	FC 310-M2	FC 311-M2	FC 315-M2	FC 316-M2	FC 320-M2
FC 3301-M2	FC 3302-M2	FC 3305-M2	FC 3310-M2	FC 3311-M2	FC 3315-M2	FC 3316-M2	FC 3320-M2
FC 3401-M2	FC 3402-M2	FC 3405-M2	FC 3410-M2	FC 3411-M2	FC 3415-M2	FC 3416-M2	FC 3420-M2

## FP series

Housing made of polymer glass-reinforced   
 One conduit entry M20x1.5  
 Protection degree IP67  
 Marks:   
 Ambient temperature: -25°C ... +80°C

Snap action contacts 1NO+1NC  
 Slow action contacts 1NO+1NC  
 Slow action contacts 2NC  
 Slow action contacts 1NO+2NC  
 Snap action contacts 2NC-2NO



FP 501-M2	FP 502-M2	FP 505-M2	FP 510-M2	FP 511-M2	FP 515-M2	FP 516-M2	FP 520-M2
FP 601-M2	FP 602-M2	FP 605-M2	FP 610-M2	FP 611-M2	FP 615-M2	FP 616-M2	
FP 901-M2	FP 902-M2	FP 905-M2	FP 910-M2	FP 911-M2	FP 915-M2	FP 916-M2	
FP 2001-M2	FP 2002-M2	FP 2005-M2	FP 2010-M2	FP 2011-M2	FP 2015-M2	FP 2016-M2	FP 2020-M2
FP 201-M2	FP 202-M2	FP 205-M2	FP 210-M2	FP 211-M2	FP 215-M2	FP 216-M2	FP 220-M2

### Accessories

See on page 37.  
 For the whole accessories list please see the general catalogue.





Round rod With two stable positions

FD 521-M2	FD 525-M2	FD 531-M2	FD 532-M2	FD 535-M2	FD 536-M2	FD 542-M2	FD 551-M2	FD 552-M2	FD 553-E11M2V9	FD 576-M2
		FD 631-M2	FD 632-M2	FD 635-M2	FD 636-M2		FD 651-M2	FD 652-M2	FD 653-E11M2V9	FD 676-M2
		FD 931-M2	FD 932-M2	FD 935-M2	FD 936-M2		FD 951-M2	FD 952-M2	FD 953-E11M2V9	FD 976-M2
FD 2021-M2	FD 2025-M2	FD 2031-M2	FD 2032-M2	FD 2035-M2	FD 2036-M2		FD 2051-M2	FD 2052-M2	FD 2053-E11M2V9	FD 2076-M2
FD 221-M2	FD 225-M2	FD 231-M2	FD 232-M2	FD 235-M2	FD 236-M2		FD 251-M2	FD 252-M2	FD 253-E11M2	FD 276-M2

Round rod With two stable positions

FL 521-M2	FL 525-M2	FL 531-M2	FL 532-M2	FL 535-M2	FL 536-M2	FL 542-M2	FL 551-M2	FL 552-M2	FL 553-E11M2V9	FL 576-M2
		FL 631-M2	FL 632-M2	FL 635-M2	FL 636-M2		FL 651-M2	FL 652-M2	FL 653-E11M2V9	FL 676-M2
		FL 931-M2	FL 932-M2	FL 935-M2	FL 936-M2		FL 951-M2	FL 952-M2	FL 953-E11M2V9	FL 976-M2
FL 2021-M2	FL 2025-M2	FL 2031-M2	FL 2032-M2	FL 2035-M2	FL 2036-M2		FL 2051-M2	FL 2052-M2	FL 2053-E11M2V9	FL 2076-M2
FL 221-M2	FL 225-M2	FL 231-M2	FL 232-M2	FL 235-M2	FL 236-M2		FL 251-M2	FL 252-M2	FL 253-E11M2	FL 276-M2

Round rod

FC 321-M2	FC 325-M2	FC 331-M2	FC 332-M2	FC 335-M2	FC 336-M2	FC 351-M2	FC 352-M2	FC 353-E11M2	FC 376-M2
FC 3321-M2	FC 3325-M2	FC 3331-M2	FC 3332-M2	FC 3335-M2	FC 3336-M2	FC 3351-M2	FC 3352-M2	FC 3353-E11M2V9	FC 3376-M2
FC 3421-M2	FC 3425-M2	FC 3431-M2	FC 3432-M2	FC 3435-M2	FC 3436-M2	FC 3451-M2	FC 3452-M2	FC 3453-E11M2V9	FC 3476-M2

Round rod With two stable positions

FP 521-M2	FP 525-M2	FP 531-M2	FP 532-M2	FP 535-M2	FP 536-M2	FP 542-M2	FP 551-M2	FP 552-M2	FP 553-E11M2V9	FP 576-M2
		FP 631-M2	FP 632-M2	FP 635-M2	FP 636-M2		FP 651-M2	FP 652-M2	FP 653-E11M2V9	FP 676-M2
		FP 931-M2	FP 932-M2	FP 935-M2	FP 936-M2		FP 951-M2	FP 952-M2	FP 953-E11M2V9	FP 976-M2
FP 2021-M2	FP 2025-M2	FP 2031-M2	FP 2032-M2	FP 2035-M2	FP 2036-M2		FP 2051-M2	FP 2052-M2	FP 2053-E11M2V9	FP 2076-M2
FP 221-M2	FP 225-M2	FP 231-M2	FP 232-M2	FP 235-M2	FP 236-M2		FP 251-M2	FP 252-M2	FP 253-E11M2	FP 276-M2

Position switches without actuator, see page 7

Items with code on the green background are available in stock



## FR series

Housing made of polymer glass-reinforced   
 One conduit entry M20x1.5   
 Protection degree IP67   
 Marks:   
 Ambient temperature: -25°C ... +80°C

Snap action contacts 1NO+1NC   
 Slow action contacts 1NO+1NC   
 Slow action contacts 2NC   
 Slow action contacts 1NO+2NC   
 Snap action contacts 2NC-2NO



Polymer roller      Stainless steel roller

FR 501-M2	FR 502-M2	FR 505-M2	FR 507-M2	FR 508-M2	FR 513-M2	FR 515-M2	FR 515-M2R28
FR 601-M2	FR 602-M2	FR 605-M2	FR 607-M2	FR 608-M2	FR 613-M2	FR 615-M2	FR 615-M2R28
FR 901-M2	FR 902-M2	FR 905-M2	FR 907-M2	FR 908-M2	FR 913-M2	FR 915-M2	FR 915-M2R28
FR 2001-M2	FR 2002-M2	FR 2005-M2	FR 2007-M2	FR 2008-M2	FR 2013-M2	FR 2015-M2	FR 2015-M2R28
FR 201-M2	FR 202-M2	FR 205-M2	FR 207-M2	FR 208-M2	FR 213-M2	FR 215-M2	FR 215-M2R28

## FX series

Housing made of polymer glass-reinforced   
 Two conduit entries M20x1.5   
 Protection degree IP67   
 Marks:   
 Ambient temperature: -25°C ... +80°C

Snap action contacts 1NO+1NC   
 Slow action contacts 1NO+1NC   
 Slow action contacts 2NC   
 Slow action contacts 1NO+2NC   
 Snap action contacts 2NC-2NO



Polymer roller      Stainless steel roller

FX 501-M2	FX 502-M2	FX 505-M2	FX 507-M2	FX 508-M2	FX 513-M2	FX 515-M2	FX 515-M2R28
FX 601-M2	FX 602-M2	FX 605-M2	FX 607-M2	FX 608-M2	FX 613-M2	FX 615-M2	FX 615-M2R28
FX 901-M2	FX 902-M2	FX 905-M2	FX 907-M2	FX 908-M2	FX 913-M2	FX 915-M2	FX 915-M2R28
FX 2001-M2	FX 2002-M2	FX 2005-M2	FX 2007-M2	FX 2008-M2	FX 2013-M2	FX 2015-M2	FX 2015-M2R28
FX 201-M2	FX 202-M2	FX 205-M2	FX 207-M2	FX 208-M2	FX 213-M2	FX 215-M2	FX 215-M2R28

## FM series

Housing made of metal   
 One conduit entry M20x1.5   
 Protection degree IP67   
 Marks:   
 Ambient temperature: -25°C ... +80°C

Snap action contacts 1NO+1NC   
 Slow action contacts 1NO+1NC   
 Slow action contacts 2NC   
 Slow action contacts 1NO+2NC   
 Snap action contacts 2NC-2NO



Stainless steel roller

FM 501-M2	FM 502-M2	FM 505-M2	FM 507-M2	FM 508-M2	FM 513-M2	FM 515-M2R28
FM 601-M2	FM 602-M2	FM 605-M2	FM 607-M2	FM 608-M2	FM 613-M2	FM 615-M2R28
FM 901-M2	FM 902-M2	FM 905-M2	FM 907-M2	FM 908-M2	FM 913-M2	FM 915-M2R28
FM 2001-M2	FM 2002-M2	FM 2005-M2	FM 2007-M2	FM 2008-M2	FM 2013-M2	FM 2015-M2R28
FM 201-M2	FM 202-M2	FM 205-M2	FM 207-M2	FM 208-M2	FM 213-M2	FM 215-M2R28

## FZ series

Housing made of metal   
 Two conduit entries M20x1.5   
 Protection degree IP67   
 Marks:   
 Ambient temperature: -25°C ... +80°C

Snap action contacts 1NO+1NC   
 Slow action contacts 1NO+1NC   
 Slow action contacts 2NC   
 Slow action contacts 1NO+2NC   
 Snap action contacts 2NC-2NO



Stainless steel roller

FZ 501-M2	FZ 502-M2	FZ 505-M2	FZ 507-M2	FZ 508-M2	FZ 513-M2	FZ 515-M2R28
FZ 601-M2	FZ 602-M2	FZ 605-M2	FZ 607-M2	FZ 608-M2	FZ 613-M2	FZ 615-M2R28
FZ 901-M2	FZ 902-M2	FZ 905-M2	FZ 907-M2	FZ 908-M2	FZ 913-M2	FZ 915-M2R28
FZ 2001-M2	FZ 2002-M2	FZ 2005-M2	FZ 2007-M2	FZ 2008-M2	FZ 2013-M2	FZ 2015-M2R28
FZ 201-M2	FZ 202-M2	FZ 205-M2	FZ 207-M2	FZ 208-M2	FZ 213-M2	FZ 215-M2R28

### Accessories

See on page 37.   
 For the whole accessories list please see the general catalogue.





Round rod



FR 520-M2	FR 521-M2	FR 525-M2	FR 530-M2	FR 550-M2	FR 551-M2	FR 553-E0M2V9	FR 554-M2	FR 555-M2	FR 569-M2	FR 576-M2
			FR 630-M2	FR 650-M2	FR 651-M2	FR 653-E0M2V9	FR 654-M2	FR 655-M2	FR 669-M2	FR 676-M2
			FR 930-M2	FR 950-M2	FR 951-M2	FR 953-E0M2V9	FR 954-M2	FR 955-M2	FR 969-M2	FR 976-M2
FR 2020-M2	FR 2021-M2	FR 2025-M2	FR 2030-M2	FR 2050-M2	FR 2051-M2	FR 2053-E0M2V9	FR 2054-M2	FR 2055-M2	FR 2069-M2	FR 2076-M2
FR 220-M2	FR 221-M2	FR 225-M2	FR 230-M2	FR 250-M2	FR 251-M2	FR 253-E0M2	FR 254-M2	FR 255-M2	FR 269-M2	FR 276-M2

Round rod



FX 520-M2	FX 521-M2	FX 525-M2	FX 530-M2	FX 550-M2	FX 551-M2	FX 553-E0M2V9	FX 554-M2	FX 555-M2	FX 569-M2	FX 576-M2
			FX 630-M2	FX 650-M2	FX 651-M2	FX 653-E0M2V9	FX 654-M2	FX 655-M2	FX 669-M2	FX 676-M2
			FX 930-M2	FX 950-M2	FX 951-M2	FX 953-E0M2V9	FX 954-M2	FX 955-M2	FX 969-M2	FX 976-M2
FX 2020-M2	FX 2021-M2	FX 2025-M2	FX 2030-M2	FX 2050-M2	FX 2051-M2	FX 2053-E0M2V9	FX 2054-M2	FX 2055-M2	FX 2069-M2	FX 2076-M2
FX 220-M2	FX 221-M2	FX 225-M2	FX 230-M2	FX 250-M2	FX 251-M2	FX 253-E0M2	FX 254-M2	FX 255-M2	FX 269-M2	FX 276-M2

Round rod



FM 520-M2	FM 521-M2	FM 525-M2	FM 531-M2	FM 550-M2	FM 551-M2	FM 553-E0M2V9	FM 554-M2	FM 555-M2	FM 569-M2	FM 576-M2
			FM 631-M2	FM 650-M2	FM 651-M2	FM 653-E0M2V9	FM 654-M2	FM 655-M2	FM 669-M2	FM 676-M2
			FM 931-M2	FM 950-M2	FM 951-M2	FM 953-E0M2V9	FM 954-M2	FM 955-M2	FM 969-M2	FM 976-M2
FM 2020-M2	FM 2021-M2	FM 2025-M2	FM 2031-M2	FM 2050-M2	FM 2051-M2	FM 2053-E0M2V9	FM 2054-M2	FM 2055-M2	FM 2069-M2	FM 2076-M2
FM 220-M2	FM 221-M2	FM 225-M2	FM 231-M2	FM 250-M2	FM 251-M2	FM 253-E0M2	FM 254-M2	FM 255-M2	FM 269-M2	FM 276-M2

Round rod



FZ 520-M2	FZ 521-M2	FZ 525-M2	FZ 531-M2	FZ 550-M2	FZ 551-M2	FZ 553-E0M2V9	FZ 554-M2	FZ 555-M2	FZ 569-M2	FZ 576-M2
			FZ 631-M2	FZ 650-M2	FZ 651-M2	FZ 653-E0M2V9	FZ 654-M2	FZ 655-M2	FZ 669-M2	FZ 676-M2
			FZ 931-M2	FZ 950-M2	FZ 951-M2	FZ 953-E0M2V9	FZ 954-M2	FZ 955-M2	FZ 969-M2	FM 976-M2
FZ 2020-M2	FZ 2021-M2	FZ 2025-M2	FZ 2031-M2	FZ 2050-M2	FZ 2051-M2	FZ 2053-E0M2V9	FZ 2054-M2	FZ 2055-M2	FZ 2069-M2	FM 2076-M2
FZ 220-M2	FZ 221-M2	FZ 225-M2	FZ 231-M2	FZ 250-M2	FZ 251-M2	FZ 253-E0M2	FZ 254-M2	FZ 255-M2	FZ 269-M2	FZ 276-M2

Position switches without actuator, see page 7

Items with code on the green background are available in stock



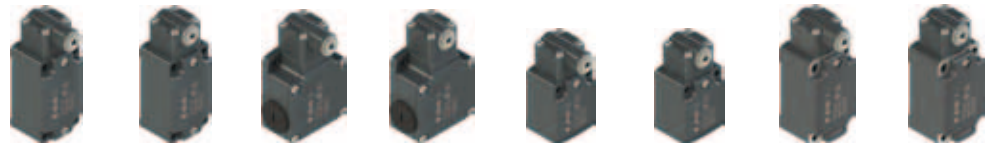
### FD, FL, FC, FP series

#### Position switches without actuator

Housing made of polymer glass-reinforced (FP)

Housing made of metal (FD, FL, FC)  
 One conduit entry M20x1.5 (FD, FP, FC)  
 Three conduit entries M20x1.5 (FL)  
 Protection degree IP67

Marks:



Snap action contacts 1NO+1NC

Slow action contacts 1NO+1NC

Slow action contacts 2NC

Slow action contacts 1NO+2NC

Snap action contacts 2NC-2NO

FD 538-M2	FD 558-M2	FL 538-M2	FL 558-M2	FC 338-M2	FC 358-M2	FP 538-M2	FP 558-M2
FD 638-M2	FD 658-M2	FL 638-M2	FL 658-M2	FC 3338-M2	FC 3358-M2	FP 638-M2	FP 658-M2
FD 938-M2	FD 958-M2	FL 938-M2	FL 958-M2	FC 3438-M2	FC 3458-M2	FP 938-M2	FP 958-M2
FD 2038-M2	FD 2058-M2	FL 2038-M2	FL 2058-M2			FP 2038-M2	FP 2058-M2
FD 238-M2	FD 258-M2	FL 238-M2	FL 258-M2			FP 238-M2	FP 258-M2

#### Loose actuators

Round rod      Square rod



VF L31	VF L32	VF L33	VF L34	VF L35	VF L36	VF L51	VF L52	VF L53	VF L56	VF L57
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Attention! These loose actuators must be used with FD, FL, FC and FP series only.



### FR, FX, FM, FZ series

#### Position switches without actuator

Housing made of polymer glass-reinforced (FR, FX)

Housing made of metal (FM, FZ)  
 One conduit entry M20x1.5 (FR, FM)  
 Two conduit entries M20x1.5 (FX, FZ)  
 Protection degree IP67

Marks:



With reset

Snap action contacts 1NO+1NC

Slow action contacts 1NO+1NC

Slow action contacts 2NC

Slow action contacts 1NO+2NC

Snap action contacts 2NC-2NO

FR 538-M2	FX 538-M2	FM 538-M2	FZ 538-M2	
FR 638-M2	FX 638-M2	FM 638-M2	FZ 638-M2	FR 638-W3M2
FR 938-M2	FX 938-M2	FM 938-M2	FZ 938-M2	FR 938-W3M2
FR 2038-M2	FX 2038-M2	FM 2038-M2	FZ 2038-M2	FR 2038-W3M2
FR 238-M2	FX 238-M2	FM 238-M2	FZ 238-M2	FR 238-W3M2

#### Loose actuators

Square rod      Round rod



VF LE30	VF LE31	VF LE33	VF LE34	VF LE50	VF LE51	VF LE52	VF LE53	VF LE54	VF LE55	VF LE56	VF LE57	VF LE69
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Attention! These loose actuators must be used with FR, FX, FM and FZ series only.

#### Accessories







See on page 37.  
 For the whole accessories list please see the general catalogue.







## FR series

Housing made of polymer glass-reinforced   
 One conduit entry M20x1.5  
 Protection degree IP67  
 Marks:       
 Ambient temperature: -25°C ... +80°C



Slow action contacts 1NO+1NC  
 Slow action contacts 2NC  
 Slow action contacts 1NO+2NC

FR 601-W3M2 ⊕ FR 602-W3M2 ⊕ FR 605-W3M2 ⊕ FR 607-W3M2 ⊕ FR 615-W3M2 ⊕ FR 630-W3M2 ⊕ FR 651-W3M2 ⊕ FR 654-W3M2 ⊕  
 FR 901-W3M2 ⊕ FR 902-W3M2 ⊕ FR 905-W3M2 ⊕ FR 907-W3M2 ⊕ FR 915-W3M2 ⊕ FR 930-W3M2 ⊕ FR 951-W3M2 ⊕ FR 954-W3M2 ⊕  
 FR 2001-W3M2 ⊕ FR 2002-W3M2 ⊕ FR 2005-W3M2 ⊕ FR 2007-W3M2 ⊕ FR 2015-W3M2 ⊕ FR 2030-W3M2 ⊕ FR 2051-W3M2 ⊕ FR 2054-W3M2 ⊕

**In order to buy a FX, FM e FZ: series product:**  
 substitute on above mentioned codes FR with FX, FM or FZ.: Example: **FR 601-W3M2 → FM 601-W3M2**

Position switches without actuator, see page 7






Pizzato Elettrica has developed a reset device code W3 to make perfectly simultaneous the actuator and the contact block tripping. This device is a block inserted between the switch body and the head, and could be rotated independently from this last one. This new device has following advantages:

- Contact blocks with snap action are no more necessary because the tripping movement is made by the reset device itself
- The reset device can be rotated independently from the head for the maximum flexibility during the assembling
- Two driving forces: standard (W3) and increased (W4) for applications with vibrations
- Mechanical endurance: 1 million operations cycles.

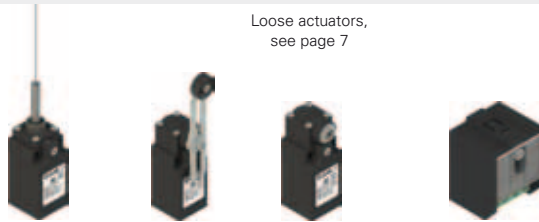
## Switches for special applications



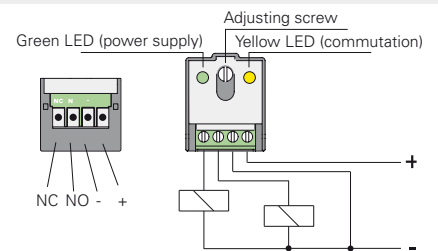
## FR series with electronic contact blocks

Housing made of polymer glass-reinforced   
 One conduit entry M20x1.5  
 Protection degree IP67  
 Marks:    
 Ambient temperature: -25°C ... +80°C

- Operation voltage (Ue): from 10 to 30 Vdc
- Output signals without bounces
- Power supply and switching LED
- Operation current (Ie): 200 mA
- Two static outputs 1NO and 1NC
- Minimum differential travel
- Adjustable intervention point
- Reduced actuating force



Loose actuators, see page 7

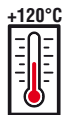


Electronic PNP contacts (1NO-1NC)

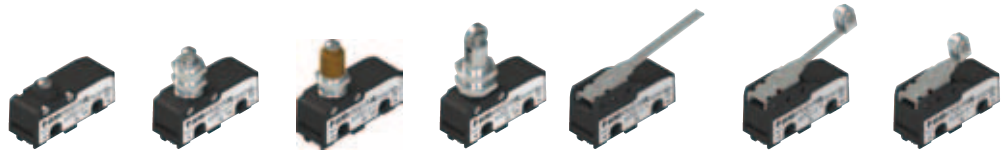
FR E121-M2 FR E155-M2 FR E138-M2

**In order to buy a FX, FM e FZ: series product:**  
 substitute on above mentioned codes FR with FX, FM or FZ.: Example: **FR E101-M2 → FM E101-M2**

## MK series for high temperature








Ambient temperature: -25°C ... +120°C  
 Housing made of polymer glass-reinforced  
 Positive opening ⊕ versions  
 Screw terminals  
 Protection degree from IP40 (electric contacts)  
 Marks:    



Snap action contacts 1NO+1NC

MKV11D05-T7 ⊕ MKV11D10-T7 ⊕ MKV11D12-T7 ⊕ MKV11D15-T7 ⊕ MKV11D30-T7 MKV11F40-R16T7 MKV11F45-R16T7 ⊕

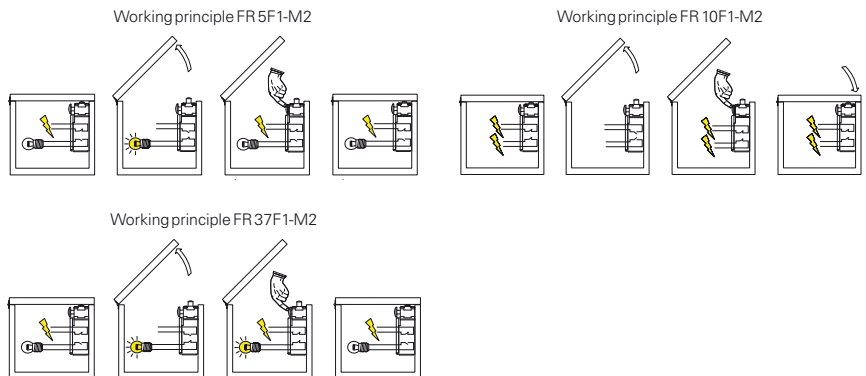
## FR series for electric boards

Housing made of polymer glass-reinforced   
 One conduit entry M20x1.5  
 Protection degree IP67  
 Marks:      
 Ambient temperature: -25°C ... +80°C



Snap action contacts 1NO+1NC  
 Slow action contacts 2NO  
 Slow action contacts 1NO+1NC

FR 5F1-M2 ⊕  
 FR 10F1-M2  
 FR 37F1-M2 ⊕



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

## NA series

Housing made of metal  
 Cable length 2 m  
 Distance between fixing holes 20 mm  
 Protection degree IP67 and IP69K  
 Marks:



- Snap action contacts 1NO+1NC
- Snap action contacts 1NO+2NC
- Snap action contacts 2NO+2NC
- Slow action contacts 1NO+1NC
- Slow action contacts 1NO+2NC
- Slow action contacts 2NO+2NC

NA B110AB-DN2	NA B110BB-DN2	NA B110EB-DN2	NA B110FB-DN2	NA B110HB-DN2	NA B110HE-DN2	NA B112KC-DN2	NA B112KD-DN2
NA B120AB-DN2	NA B120BB-DN2	NA B120EB-DN2	NA B120FB-DN2	NA B120HB-DN2	NA B120HE-DN2	NA B122KC-DN2	NA B122KD-DN2
NA B220AB-DN2	NA B220BB-DN2	NA B220EB-DN2	NA B220FB-DN2	NA B220HB-DN2	NA B220HE-DN2	NA B222KC-DN2	NA B222KD-DN2
NA G110AB-DN2	NA G110BB-DN2	NA G110EB-DN2	NA G110FB-DN2			NA G112KC-DN2	NA G112KD-DN2
NA G120AB-DN2	NA G120BB-DN2	NA G120EB-DN2	NA G120FB-DN2			NA G122KC-DN2	NA G122KD-DN2
NA G220AB-DN2	NA G220BB-DN2	NA G220EB-DN2	NA G220FB-DN2			NA G222KC-DN2	NA G222KD-DN2

Housing NB series (Distance fixing holes 25 mm)



**In order to buy a NB series product:** substitute on above mentioned codes NA with NB. Example: **NA B110AA-DN2** → **NB B110AA-DN2**



**In order to buy a product with M12 connector output from right** substitute on above mentioned codes DN2 with DMK. Example: **NA B110AA-DN2** → **NA B110AA-DMK**



**In order to buy a product with M12 connector output from bottom** substitute on above mentioned codes DN2 with SMK. Example: **NA B110AA-DN2** → **NA B110AA-SMK**



**In order to buy a product with AMP connector output** substitute on above mentioned codes DN2 with SAK. Example: **NA B110AA-DN2** → **NA B110AA-SAK**

## NF series

Housing made of polymer glass-reinforced   
 Cable length 2 m  
 Distance between fixing holes 20 mm  
 Protection degree IP67 and IP69K  
 Marks:



- Snap action contacts 1NO+1NC
- Snap action contacts 1NO+2NC
- Snap action contacts 2NO+2NC
- Slow action contacts 1NO+1NC
- Slow action contacts 1NO+2NC
- Slow action contacts 2NO+2NC

NF B110AB-DN2	NF B110BB-DN2	NF B110EB-DN2	NF B110FB-DN2	NF B110HB-DN2	NF B110HE-DN2	NF B112KC-DN2	NF B112KD-DN2
NF B120AB-DN2	NF B120BB-DN2	NF B120EB-DN2	NF B120FB-DN2	NF B120HB-DN2	NF B120HE-DN2	NF B122KC-DN2	NF B122KD-DN2
NF B220AB-DN2	NF B220BB-DN2	NF B220EB-DN2	NF B220FB-DN2	NF B220HB-DN2	NF B220HE-DN2	NF B222KC-DN2	NF B222KD-DN2
NF G110AB-DN2	NF G110BB-DN2	NF G110EB-DN2	NF G110FB-DN2			NF G112KC-DN2	NF G112KD-DN2
NF G120AB-DN2	NF G120BB-DN2	NF G120EB-DN2	NF G120FB-DN2			NF G122KC-DN2	NF G122KD-DN2
NF G220AB-DN2	NF G220BB-DN2	NF G220EB-DN2	NF G220FB-DN2			NF G222KC-DN2	NF G222KD-DN2

M12 connector output from right



**In order to buy a product with M12 connector output from right** substitute on above mentioned codes DN2 with DMK. Example: **NF B110AA-DN2** → **NF B110AA-DMK**



M12 connector output from bottom

**In order to buy a product with M12 connector output from bottom** substitute on above mentioned codes DN2 with SMK. Example: **NF B110AA-DN2** → **NF B110AA-SMK**



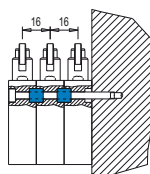
AMP superseal 1.5 connector

**In order to buy a product with AMP connector output** substitute on above mentioned codes DN2 with SAK. Example: **NF B110AA-DN2** → **NF B110AA-SAK**

## Accessories



By interposing spacers between the switches, it is possible to join two or more prewired switches, preventing them from moving one against the other.



Article	Description
VN DT1F	Spacers for NA-NF series
VF D16B	Spacers for NB series

## Accessories

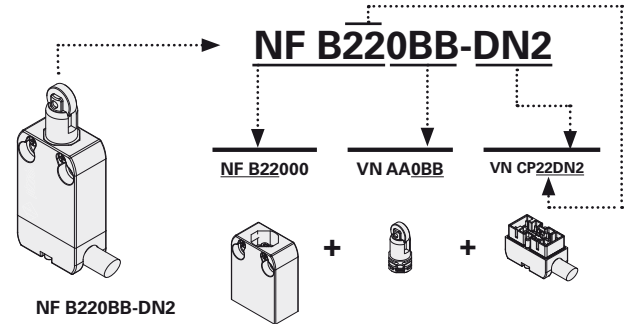
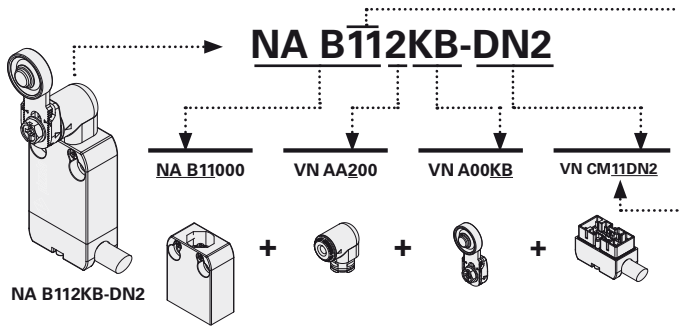
See on page 37.  
 For the whole accessories list please see the general catalogue.



10 pcs pack. Only orders for quantities multiple of the packs are accepted.



Examples of article code composition



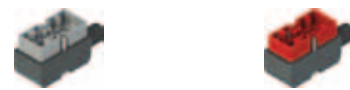
Housings

metal housing NA (Distance fixing holes 20 mm)    metal housing NB (Distance fixing holes 25 mm)    polymer housing NF (Distance fixing holes 20 mm)



Connector with cable

metal connectors for NA and NB housing    polymer connectors for NF housing



Cable length(m)

NA B11000	⊕ 1NO+1NC	<b>R</b>	NB B11000	⊕ 1NO+1NC	<b>R</b>	NF B11000	⊕ 1NO+1NC	<b>R</b>
NA G11000	⊕ 1NO+1NC	<b>L</b>	NB G11000	⊕ 1NO+1NC	<b>L</b>	NF G11000	⊕ 1NO+1NC	<b>L</b>
NA B12000	⊕ 1NO+2NC	<b>R</b>	NB B12000	⊕ 1NO+2NC	<b>R</b>	NF B12000	⊕ 1NO+2NC	<b>R</b>
NA G12000	⊕ 1NO+2NC	<b>L</b>	NB G12000	⊕ 1NO+2NC	<b>L</b>	NF G12000	⊕ 1NO+2NC	<b>L</b>
NA B22000	⊕ 2NO+2NC	<b>R</b>	NB B22000	⊕ 2NO+2NC	<b>R</b>	NF B22000	⊕ 2NO+2NC	<b>R</b>
NA G22000	⊕ 2NO+2NC	<b>L</b>	NB G22000	⊕ 2NO+2NC	<b>L</b>	NF G22000	⊕ 2NO+2NC	<b>L</b>

VN CM11DN2	1NO+1NC	VN CP11DN2	1NO+1NC	2
VN CM11DN5	1NO+1NC	VN CP11DN5	1NO+1NC	5
VN CM12DN2	1NO+2NC	VN CP12DN2	1NO+2NC	2
VN CM12DN5	1NO+2NC	VN CP12DN5	1NO+2NC	5
VN CM22DN2	2NO+2NC	VN CP22DN2	2NO+2NC	2
VN CM22DN5	2NO+2NC	VN CP22DN5	2NO+2NC	5

Contacts type: **R** = snap action    **L** = slow action

M12 or AMP connector

M12 connector from right for NA and NB housing    M12 connector from bottom for NA and NB housing    M12 connector from right for NF housing    M12 connector from bottom for NF housing    AMP super seal 1.5 connector for NF housing

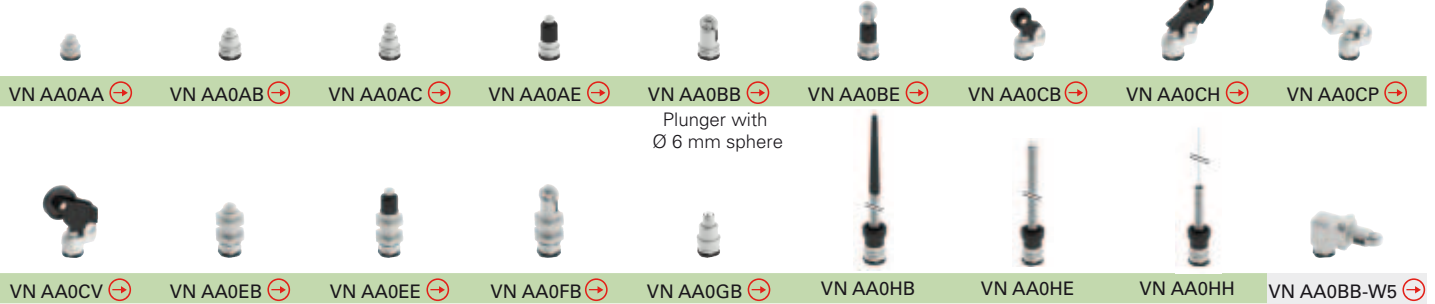


VN CM11DMK	1NO+1NC	VN CM11SMK	1NO+1NC	VN CP11DMK	1NO+1NC	VN CP11SMK	1NO+1NC	VN CP11SAK	1NO+1NC
VN CM22DMK	2NO+2NC	VN CM22SMK	2NO+2NC	VN CP22DMK	2NO+2NC	VN CP22SMK	2NO+2NC	VN CP02SAK	2NC

**⚠ Attention:** Always check that the electric load used respects the voltage and current limits for the connectors.

Actuators

Unidirectional roller lever



Revolving levers

**⚠ Attention:** These loose actuators can be used with products of series NA, NB and NF only.



Square stainless steel rod 3x3x125 mm    Adjustable stainless steel rod Ø3x125 mm    Adjustable fiber glass rod Ø6x200 mm

Metal head for actuators with revolving lever

Transmission block

**⚠ Installation for persons protection applications:**

In order to obtain a safety switch with positive opening ⊕, assemble housings having the positive opening symbol next to the code ⊕ with actuators having the positive opening symbol next to the code ⊕.

Example:  
**VN A00KB ⊕ + VN AA200 ⊕ + NA B11000 ⊕**

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



## MK series

Housing made of polymer glass-reinforced  
Positive opening ⊕ versions  
Screw terminals

Marks:

Max protection degree IP40

Max protection degree IP65

### Direct action

1NO+1NC, snap action

10 pcs pack



MK V11D01	MK V11D02	MK V11D03	MK V11D04	MK V11D05 ⊕	MK V11D06 ⊕	MK V11D08 ⊕
MK V12D01	MK V12D02	MK V12D03	MK V12D04	MK V12D05 ⊕	MK V12D06 ⊕	MK V12D08 ⊕

### Direct action

1NO+1NC, snap action



Max protection degree IP40

Max protection degree IP65

MK V11D09 ⊕	MK V11D10 ⊕	MK V11D12 ⊕	MK V11D13 ⊕	MK V11D15 ⊕	MK V11D17 ⊕	MK V11D18 ⊕
MK V12D09 ⊕	MK V12D10 ⊕	MK V12D12 ⊕	MK V12D13 ⊕	MK V12D15 ⊕	MK V12D17 ⊕	MK V12D18 ⊕

### Direct action

1NO+1NC, snap action



Max protection degree IP40

Max protection degree IP65

MK V11D19 ⊕	MK V11D30	MK V11D31	MK V11D32	MK V11D35	MK V11D37	MK V11D40
MK V12D19 ⊕	MK V12D30	MK V12D31	MK V12D32	MK V12D35	MK V12D37	MK V12D40

### Direct action

1NO+1NC, snap action



Max protection degree IP40

Max protection degree IP65

MK V11D42	MK V11D45	MK V11D46	MK V11D47	MK V11D53	MK V11D59
MK V12D42	MK V12D45	MK V12D46	MK V12D47	MK V12D53	MK V12D59

### Back direct action

1NO+1NC, snap action



Max protection degree IP40

Max protection degree IP65

MK V11F30	MK V11F31 ⊕	MK V11F32	MK V11F40	MK V11F42 ⊕	MK V11F45 ⊕	MK V11F46 ⊕
MK V12F30	MK V12F31 ⊕	MK V12F32	MK V12F40	MK V12F42 ⊕	MK V12F45 ⊕	MK V12F46 ⊕

### Back direct action

1NO+1NC, snap action

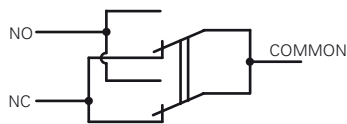


Max protection degree IP40

Max protection degree IP65

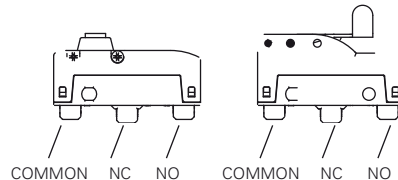
MK V11F47 ⊕	MK V11F49 ⊕	MK V11F59 ⊕
MK V12F47 ⊕	MK V12F49 ⊕	MK V12F59 ⊕

### Wire diagram

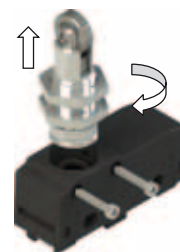


Contacts with single interruption and double contacts

With direct and back direct action (F, D)



### Rotating actuators



Thanks to the patented new lateral fixing system, it's possible to rotate the roller of microswitches MK ●●15 and MK ●●17 in 90° steps.

### Terminals type



**V** (Example: MK V11D04)  
screw terminals with self-lifting plate



**H** (Example: MK H11D04)  
6.3 mm vertical faston

### Protection degree

Protection degree:

IP20 (with protection VF C01 - VF C03)  
IP40 (with protection VF MKC●1 - VF C02)  
IP65 (with protection VF MKC●22 - VF MKC●23)

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



# MK series

Housing made of polymer glass-reinforced  
Positive opening ⊕ versions  
Faston terminals

Marks:

**Direct action**  
1NO+1NC, snap action

10 pcs pack



Max protection degree IP40  
Max protection degree IP65

MK H11D01	MK H11D02	MK H11D03	MK H11D04	MK H11D05 ⊕	MK H11D06 ⊕	MK H11D08 ⊕
MK H12D01	MK H12D02	MK H12D03	MK H12D04	MK H12D05 ⊕	MK H12D06 ⊕	MK H12D08 ⊕

**Direct action**  
1NO+1NC, snap action



Max protection degree IP40  
Max protection degree IP65

MK H11D09 ⊕	MK H11D10 ⊕	MK H11D12 ⊕	MK H11D13 ⊕	MK H11D15 ⊕	MK H11D17 ⊕	MK H11D18 ⊕
MK H12D09 ⊕	MK H12D10 ⊕	MK H12D12 ⊕	MK H12D13 ⊕	MK H12D15 ⊕	MK H12D17 ⊕	MK H12D18 ⊕

**Direct action**  
1NO+1NC, snap action



Max protection degree IP40  
Max protection degree IP65

MK H11D19 ⊕	MK H11D30	MK H11D31	MK H11D32	MK H11D35	MK H11D37	MK H11D40
MK H12D19 ⊕	MK H12D30	MK H12D31	MK H12D32	MK H12D35	MK H12D37	MK H12D40

**Direct action**  
1NO+1NC, snap action



Max protection degree IP40  
Max protection degree IP65

MK H11D42	MK H11D45	MK H11D46	MK H11D47	MK H11D53	MK H11D59
MK H12D42	MK H12D45	MK H12D46	MK H12D47	MK H12D53	MK H12D59

**Back direct action**  
1NO+1NC, snap action



Max protection degree IP40  
Max protection degree IP65

MK H11F30	MK H11F31 ⊕	MK H11F32	MK H11F40	MK H11F42 ⊕	MK H11F45 ⊕	MK H11F46 ⊕
MK H12F30	MK H12F31 ⊕	MK H12F32	MK H12F40	MK H12F42 ⊕	MK H12F45 ⊕	MK H12F46 ⊕

**Back direct action**  
1NO+1NC, snap action



Max protection degree IP40  
Max protection degree IP65

MK H11F47 ⊕	MK H11F49 ⊕	MK H11F59 ⊕
MK H12F47 ⊕	MK H12F49 ⊕	MK H12F59 ⊕

## Protections (terminals covers)

10 pcs pack. Only orders for quantities multiple of the packs are accepted.



Protection terminal cover for faston terminals snap-in assembled and with wire trap cable gland. It allows the installation of more switches side by side.

Article	Description	Prot. degr.
VF MKCH11	without gasket for cables from Ø 5 to Ø 7.5 mm	IP40
VF MKCH12	without gasket for cables from Ø 4 to Ø 7.5 mm	IP40
VF MKCH13	without gasket for cables from Ø 2 to Ø 5 mm	IP40
VF MKCH22	with gasket for cables from Ø 4 to Ø 7.5 mm	IP65
VF MKCH23	with gasket for cables from Ø 2 to Ø 5 mm	IP65



Protection terminal cover for vertical screw terminals snap-in assembled and with wire trap cable gland. It allows the installation of more switches side by side.

Article	Description	Prot. degr.
VF MKCV11	without gasket for cables from Ø 5 to Ø 7.5 mm	IP40
VF MKCV12	without gasket for cables from Ø 4 to Ø 7.5 mm	IP40
VF MKCV13	without gasket for cables from Ø 2 to Ø 5 mm	IP40
VF MKCV22	with gasket for cables from Ø 4 to Ø 7.5 mm	IP65
VF MKCV23	with gasket for cables from Ø 2 to Ø 5 mm	IP65



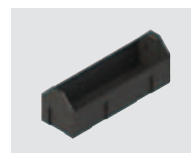
Protection terminal cover for screw terminals.  
Protection degree IP20.

Article	Description
VF C01	Protection terminal



Protection terminal cover for screw terminals with cable gland PG9 for multipolar cables from Ø 5 to Ø 7 mm.  
Protection degree IP40.

Article	Description
VF C02	Protection terminal



Protection terminal cover for screw terminals snap-in assembled. It allows the installation of more switches side by side.  
Protection degree IP20.

Article	Description
VF C03	Protection terminal



## PA, PX series

Housing made of polymer glass-reinforced   
 One conduit entry M20x1.5  
 Two lateral knock out conduit entries  
 Stainless steel external metallic parts  
 Protection degree IP53 or IP65  
 Marks contact block:

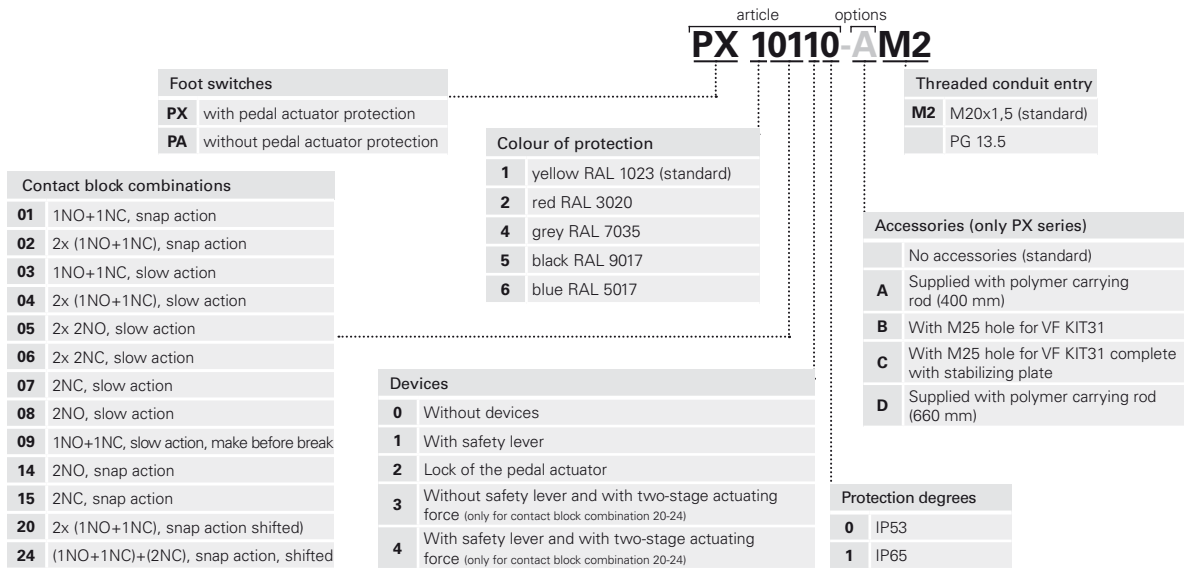
With M25 hole for VF KIT31



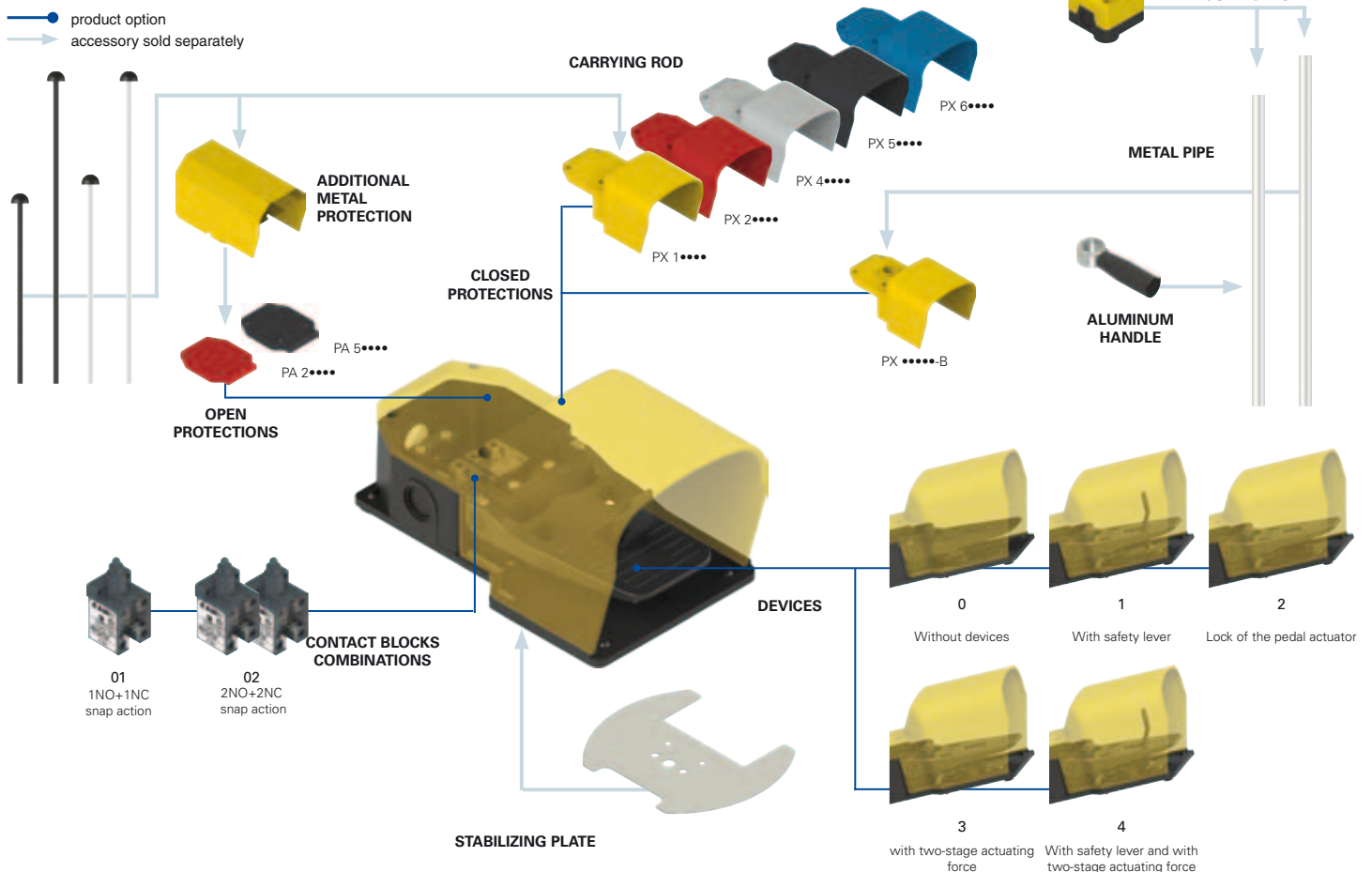
Snap action contacts 1NO+1NC	PX 10110-M2	PA 20100-M2	PX 10110-BM2
Snap action contacts 2NO+2NC	PX 10210-M2	PA 20200-M2	PX 10210-BM2
Slow action contacts 1NO+1NC	PX 10310-M2	PA 20300-M2	PX 10310-BM2

### Code structure

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



### Selection diagram

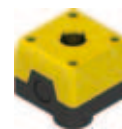
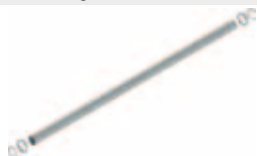




### Auxiliary devices for modular multiple foot switches



<b>VF KIT20</b>	<b>VF KIT30</b>	<b>VF KIT21 (L=400 mm)</b> <b>VF KIT22 (L=660 mm)</b>	<b>VF KIT25 (L=400 mm)</b> <b>VF KIT26 (L=660 mm)</b>
Foot switches joining devices made of polymer thermoplastic resin with a hole for a carrying rod, supplied with nuts, gaskets and self-tapping screws to fasten two single foot switches. Protection degree IP65	Foot switches joining devices made of polymer thermoplastic resin with threaded hole M25x1.5 supplied with nuts, gaskets and self-tapping screws to fasten two single foot switches. Protection degree IP65	Carrying rod (to be connected to VF KIT20) supplied with the self-tapping screw to fasten it.	Metal carrying rod (to be joined to VF KIT20) supplied with the self-tapping screw to fasten it.



<b>VF KIT31 (L=660 mm)</b> <b>VF KIT29 (L=740 mm)</b>	<b>VF KIT18</b>	<b>VF KIT32 (1NC)</b> ⊖ <b>VF KIT33 (1NC+1NO)</b> ⊖ <b>VF KIT34 (2NC)</b> ⊖	<b>VF KIT35</b>	<b>VF KIT50</b>
Metal pipe ø 25 mm with threaded ends M25x1.5 supplied with brass nuts and gaskets.	M25x1.5 brass nuts, use with VF KIT31 or VF KIT29 for commercial boxes.  10 pieces in each pack.	Emergency push button kit with mechanical positive action complying with IEC 60947-5-1 and EN ISO 13850, to be combined with VF KIT31 or VF KIT29. Protection degree IP65	Kit empty box with Ø 22 mm hole complying with EN 60947-5-1, to be combined with VF KIT31 or VF KIT29. Protection degree IP65	Handle kit for pipe kit ø 25 mm (VF KIT31 or VF KIT29).



<b>VF KIT60</b>	<b>VF KIT61</b>	<b>VF KIT71</b>	<b>VF KIT81</b>	<b>VF B501</b> ⊖ (1NC+1NO, snap action) <b>VF B601</b> ⊖ (1NC+1NO, slow action)
Metallic stabilizing plate for single foot switches	Metallic stabilizing plate for double switches	Additional metal protection for PA series. For heavy-duty work environment, oversize dimensions for safety shoes. Not applicable with VF KIT60.	Additional metal protection for PC series. For heavy-duty work environment, oversize dimensions for safety shoes. Not applicable with VF KIT61.	Additional contact block for foot switches (all foot switches are supplied with contact blocks).

### Modular multiple foot switches PC series



Using the joining kits VF KIT20 or VF KIT30 the single foot switches can be joined in many different combinations.



Items with code on the green background are available in stock

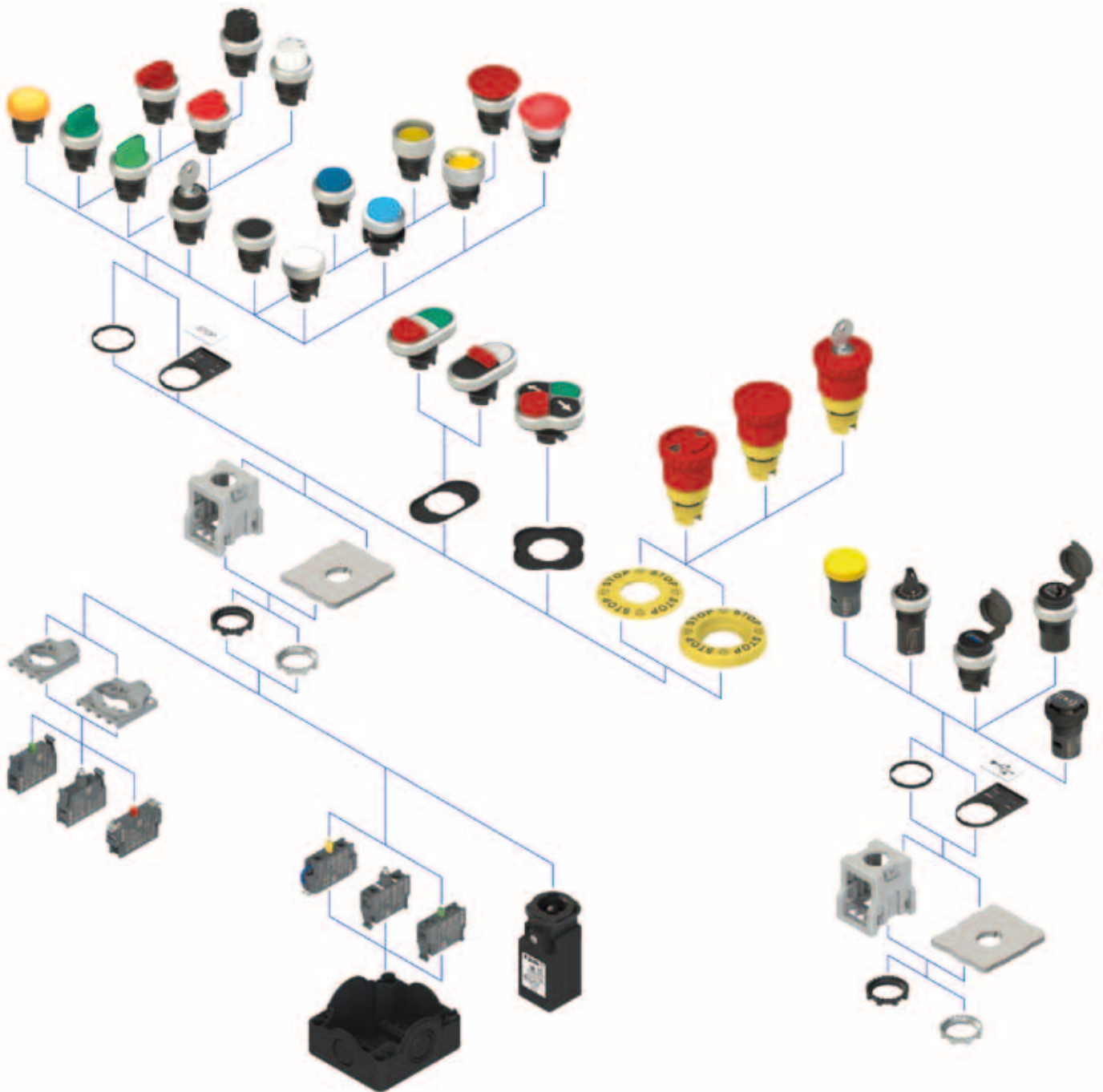


Elegance and functionality in one single series: Pizzato Elettrica extends its products range by introducing EROUND, the innovative line of control and signalling devices.

The new series, ergonomically studied to consent a comfortable and easy use of the devices, presents a particularly pleasant line with high attention to details making the products suitable for applications also on machineries with refined design.

EROUND devices thanks to their shape and functionality guarantee max reliability and adaptability to any application.

Almost all of the devices besides having protection degree IP67 have successfully passed the test for protection degree IP69K according to standard ISO 20653.







## PU series Pushbuttons

Protection degree IP67 and IP69K  
Ambient temperature -25°C ... +80°C



Actuator colour and marking	Spring-return button / satin chrome ring			
	Flush	Projecting	Booted	Mushroom
without lens	E2 1PU2R0290	Same article, flush button	E2 1PU2P0290	-
black	E2 1PU2R1290	E2 1PU2S1290	E2 1PU2P1290	E2 1PU2F1490
white	E2 1PU2R2290	E2 1PU2S2290	E2 1PU2P2290	E2 1PU2F2490
red	E2 1PU2R3290	E2 1PU2S3290	E2 1PU2P3290	E2 1PU2F3490
green	E2 1PU2R4290	E2 1PU2S4290	E2 1PU2P4290	E2 1PU2F4490
yellow	E2 1PU2R5290	E2 1PU2S5290	E2 1PU2P5290	E2 1PU2F5490
blue	E2 1PU2R6290	E2 1PU2S6290	E2 1PU2P6290	E2 1PU2F6490
orange	E2 1PU2R8290	E2 1PU2S8290	E2 1PU2P8290	E2 1PU2F8490
red with ring	E2 1PU2R329L1	E2 1PU2S329L1	-	E2 1PU2F349L1
green with ring	E2 1PU2R429L2	E2 1PU2S429L2	E2 1PU2P429L2	E2 1PU2F449L2
black with ring	E2 1PU2R129L1	E2 1PU2S129L1	-	E2 1PU2F149L1
white with ring	E2 1PU2R229L2	E2 1PU2S229L2	E2 1PU2P229L2	E2 1PU2F249L2

## PL series Illuminated pushbuttons

Protection degree IP67 and IP69K  
Ambient temperature -25°C ... +80°C



Actuator colour and marking	Spring-return button / satin chrome ring			
	Flush	Projecting	Booted	Mushroom
without lens	E2 1PL2R0290	Same article, flush button	E2 1PL2P0290	-
white	E2 1PL2R2290	E2 1PL2S2290	E2 1PL2P2290	E2 1PL2F2490
red	E2 1PL2R3290	E2 1PL2S3290	E2 1PL2P3290	E2 1PL2F3490
green	E2 1PL2R4290	E2 1PL2S4290	E2 1PL2P4290	E2 1PL2F4490
yellow	E2 1PL2R5290	E2 1PL2S5290	E2 1PL2P5290	E2 1PL2F5490
blue	E2 1PL2R6290	E2 1PL2S6290	E2 1PL2P6290	E2 1PL2F6490
orange	E2 1PL2R8290	E2 1PL2S8290	E2 1PL2P8290	E2 1PL2F8490
red with ring	E2 1PL2R329L1	E2 1PL2S329L1	-	E2 1PL2F349L1
green with ring	E2 1PL2R429L2	E2 1PL2S429L2	E2 1PL2P429L2	E2 1PL2F449L2
white with ring	E2 1PL2R229L1	E2 1PL2S229L1	-	E2 1PL2F249L1
white with ring	E2 1PL2R229L2	E2 1PL2S229L2	E2 1PL2P229L2	E2 1PL2F249L2

For ordering a stay-put pushbutton substitute in the article codes 1PU2 with 1PU1. Example: E2 1PU2R0210 → E2 1PU1R0210  
For ordering a black ring pushbutton substitute in the article codes 9 with 1. Example: E2 1PU2R0290 → E2 1PU1R0210  
Contact our Technical Dept. for customized markings.



## PD/PT series Quadruple pushbuttons

Protection degree IP67 and IP69K  
Ambient temperature -25°C ... +80°C



Actuator colour and marking	Spring-return button / satin chrome ring		Actuator colour and marking	Spring-return button / satin chrome ring
	Flush upper pushbutton Flush central element Flush lower pushbutton	Flush upper pushbutton Flush central element Projecting lower pushbutton		
green pushbutton white indicator light red pushbutton	E2 1PDRL90423	E2 1PDSL90423	"I" green pushbutton "STOP" red pushbutton	E2 1PTRS9AAAY
"I" green pushbutton white indicator light "O" red pushbutton	E2 1PDRL9AAAD	E2 1PDSL9AAAD	"I" green pushbutton "STOP" red pushbutton	E2 1PTRS9AAAZ
"START" green pushbutton white indicator light "STOP" red pushbutton	E2 1PDRL9AAAP	E2 1PDSL9AAAP	"I" green pushbutton "STOP" red pushbutton	E2 1PTRS9AABD
white pushbutton white indicator light black pushbutton	E2 1PDRL90221	E2 1PDSL90221	"I" green pushbutton "STOP" red pushbutton	E2 1PTRS9AABA
"I" white pushbutton white indicator light "O" black pushbutton	E2 1PDRL9AAAA	E2 1PDSL9AAAA	"I" green pushbutton "STOP" red pushbutton	E2 1PTRS9AABE
"START" white pushbutton white indicator light "STOP" black pushbutton	E2 1PDRL9AAAN	E2 1PDSL9AAAN	"I" green pushbutton "STOP" red pushbutton	E2 1PTRS9AABF
"↑" black pushbutton white indicator light "↓" black pushbutton	E2 1PDRL9AAAB	E2 1PDSL9AAAB	"I" green pushbutton "STOP" red pushbutton	E2 1PTRS9AABB

## PQ series Quadruple pushbuttons

Protection degree IP67  
Ambient temperature -25°C ... +80°C



Actuator colour and marking (starting from the top and clockwise)	Spring-return button / satin chrome ring	
	flush upper pushbutton flush right pushbutton flush lower pushbutton flush left pushbutton	
"↑" black pushbutton "→" black pushbutton "↓" black pushbutton "←" black pushbutton	E2 1PQFA9QAAA	
"START" green pushbutton "→" black pushbutton "STOP" red pushbutton "←" black pushbutton	E2 1PQFA9QAAB	
"START" white pushbutton "→" black pushbutton "STOP" black pushbutton "←" black pushbutton	E2 1PQFA9QAAC	
"I" green pushbutton "→" black pushbutton "O" red pushbutton "←" black pushbutton	E2 1PQFA9QAAD	
"I" white pushbutton "→" black pushbutton "O" black pushbutton "←" black pushbutton	E2 1PQFA9QAAE	

For ordering a black ring pushbutton substitute in the article codes 9 with 1. Example: E2 1PDRL90423 → E2 1PDRL10423  
Contact our Technical Dept. for customized markings.

Items with code on the green background are available in stock



## SE series

Selectors 2 or 3 positions

Protection degree IP67 and IP69K  
Ambient temperature -25°C ... +80°C



Position	Satin chrome ring						
	black	white	red	green	yellow	blue	orange
	E2 1SE12AVA19AB	E2 1SE12AVA29AB	E2 1SE12AVA39AB	E2 1SE12AVA49AB	E2 1SE12AVA59AB	E2 1SE12AVA69AB	E2 1SE12AVA89AB
	E2 1SE12EVA19AB	E2 1SE12EVA29AB	E2 1SE12EVA39AB	E2 1SE12EVA49AB	E2 1SE12EVA59AB	E2 1SE12EVA69AB	E2 1SE12EVA89AB
	E2 1SE13ACE19AB	E2 1SE13ACE29AB	E2 1SE13ACE39AB	E2 1SE13ACE49AB	E2 1SE13ACE59AB	E2 1SE13ACE69AB	E2 1SE13ACE89AB
	E2 1SE13ECE19AB	E2 1SE13ECE29AB	E2 1SE13ECE39AB	E2 1SE13ECE49AB	E2 1SE13ECE59AB	E2 1SE13ECE69AB	E2 1SE13ECE89AB
	E2 1SE13FCE19AB	E2 1SE13FCE29AB	E2 1SE13FCE39AB	E2 1SE13FCE49AB	E2 1SE13FCE59AB	E2 1SE13FCE69AB	E2 1SE13FCE89AB
	E2 1SE13GCE19AB	E2 1SE13GCE29AB	E2 1SE13GCE39AB	E2 1SE13GCE49AB	E2 1SE13GCE59AB	E2 1SE13GCE69AB	E2 1SE13GCE89AB

For ordering a black ring selector substitute in the article codes 9 with 1. Example: E2 1SE12AVA39AB → E2 1SE12AVA31AB

For ordering a knob selector substitute in the article codes 1 with 4. Example: E2 1SE12AVA39AB → E2 1SE42AVA39AB

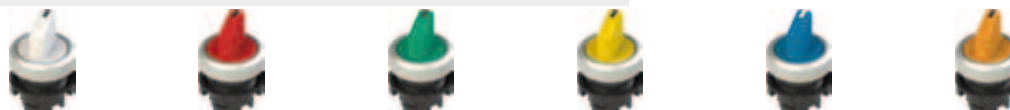
For ordering a long handle selector substitute in the article codes 1 with 2. Example: E2 1SE12AVA39AB → E2 1SE22AVA39AB



## SL series

Illuminated selectors  
2 or 3 positions

Protection degree IP67 and IP69K  
Ambient temperature -25°C ... +80°C



Position	Satin chrome ring					
	white	red	green	yellow	blue	orange
	E2 1SL12AVD29AB	E2 1SL12AVD39AB	E2 1SL12AVD49AB	E2 1SL12AVD59AB	E2 1SL12AVD69AB	E2 1SL12AVD89AB
	E2 1SL12EVD29AB	E2 1SL12EVD39AB	E2 1SL12EVD49AB	E2 1SL12EVD59AB	E2 1SL12EVD69AB	E2 1SL12EVD89AB
	E2 1SL13ACH29AB	E2 1SL13ACH39AB	E2 1SL13ACH49AB	E2 1SL13ACH59AB	E2 1SL13ACH69AB	E2 1SL13ACH89AB
	E2 1SL13ECH29AB	E2 1SL13ECH39AB	E2 1SL13ECH49AB	E2 1SL13ECH59AB	E2 1SL13ECH69AB	E2 1SL13ECH89AB
	E2 1SL13FCH29AB	E2 1SL13FCH39AB	E2 1SL13FCH49AB	E2 1SL13FCH59AB	E2 1SL13FCH69AB	E2 1SL13FCH89AB
	E2 1SL13GCH29AB	E2 1SL13GCH39AB	E2 1SL13GCH49AB	E2 1SL13GCH59AB	E2 1SL13GCH69AB	E2 1SL13GCH89AB

For ordering a black ring selector substitute in the article codes 9 with 1. Example: E2 1SL12AVD39AB → E2 1SL12AVD31AB

For ordering a knob selector substitute in the article codes 1 with 4. Example: E2 1SL12AVD39AB → E2 1SL42AVD39AB

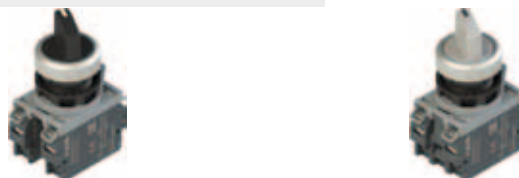
For ordering a long handle selector substitute in the article codes 1 with 2. Example: E2 1SL12AVD39AB → E2 1SL22AVD39AB



## E2 AC series

Complete units with 4 positions  
selectors

Protection degree IP67 and IP69K  
Ambient temperature -25°C ... +80°C



Actuator colour and marking	Selectors					Illuminated selectors			
	Contacts			Positions	satin chrome ring	Contacts			satin chrome ring
	pos 2	pos 3	pos 1			pos 2	pos 3	pos 1	
● black	1NO+1NC	-	1NO+1NC		E2 AC-DXBC2203	-	-	-	-
○ white	1NO+1NC	-	1NO+1NC		E2 AC-DXBC2211	1NO+1NC	LED	1NO+1NC	E2 AC-DXBC2259
● red	1NO+1NC	-	1NO+1NC		E2 AC-DXBC2219	1NO+1NC	LED	1NO+1NC	E2 AC-DXBC2267
● green	1NO+1NC	-	1NO+1NC		E2 AC-DXBC2227	1NO+1NC	LED	1NO+1NC	E2 AC-DXBC2275
● yellow	1NO+1NC	-	1NO+1NC		E2 AC-DXBC2235	1NO+1NC	LED	1NO+1NC	E2 AC-DXBC2283
● blue	1NO+1NC	-	1NO+1NC		E2 AC-DXBC2243	1NO+1NC	LED	1NO+1NC	E2 AC-DXBC2291
● orange	1NO+1NC	-	1NO+1NC		E2 AC-DXBC2251	1NO+1NC	LED	1NO+1NC	E2 AC-DXBC2299

Available on request selector with knob or long handle.

On request selectors with knob may be customized with symbols and inscriptions.

Note: the LED supplied with the illuminated selector has power supply 12 ... 30 Vac/dc. Other voltages on request.



## SC series

### Key selectors

Protection degree IP67 and IP69K  
Ambient temperature -25°C ... +80°C



#### Legend

- Stay-put
- Spring-return
- Key withdrawal position

Actuator colour and marking	Position	3 positions	
		Satin chrome ring	
● black		E2 1SC3ACE19AA	
		E2 1SC3BCE19AA	
		E2 1SC3CCE19AA	
		E2 1SC3DCE19AA	
		E2 1SC3ECE19AA	
		E2 1SC3FCE19AA	
		E2 1SC3GCE19AA	
		E2 1SC3HCE19AA	

Actuator colour and marking	Position	3 positions	
		Satin chrome ring	
● black		E2 1SC3HCE19AA	
		E2 1SC3LCE19AA	
		E2 1SC3MCE19AA	
		E2 1SC3NCE19AA	
		E2 1SC3PCE19AA	
		E2 1SC3QCE19AA	
		E2 1SC3RCE19AA	
		E2 1SC3VCE19AA	

Actuator colour and marking	Position	2 positions	
		Satin chrome ring	
● black		E2 1SC2AVA19AA	
		E2 1SC2BVA19AA	
		E2 1SC2CVA19AA	
		E2 1SC2DVA19AA	
		E2 1SC2ACA19AA	

**For ordering a black ring selector** substitute in the article codes 9 with 1. Example: E2 1SC2AVA19AA → E2 1SC2AVA11AA  
Selector standard colour in above mentioned codes is **BLACK**. Other colours on request.  
Key selectors can be customized with inscriptions and symbols. All selectors keys have the PY333 code. Other codes on request.

# Indicator lights



## PE series

### Emergency pushbuttons

Protection degree IP67 and IP69K  
Ambient temperature -25°C ... +80°C



Body colour and marking	Push-pull	Turn to release	Push-pull with mechanical indicator	Turn to release with mechanical indicator	Release with key Key number PY333
● yellow	E2 1PEPZ4531	E2 1PERZ4531	E2 1PEPF4531	E2 1PERF4531	E2 1PEBZ4531
■ yellow with green indicating lines	E2 1PEPZ4731	E2 1PERZ4731	E2 1PEPF4731	E2 1PERF4731	E2 1PEBZ4731

### Label with shaped hole

5 pcs pack



Ø 60 mm	VE TF32A5700	VE TF32A5101	VE TF32A5102	VE TF32A5109	VE TF32A5113	VE TF32G5700	VE TF32G5103	VE TF32G5110
Ø 90 mm	VE TF32D5700	VE TF32D5101	VE TF32D5102	VE TF32D5109	VE TF32D5113			

# Luminous disc



## VE DL series

### Luminous disc

Protection degree IP67  
Ambient temperature -25°C ... +70°C



fixed light	VE DL1A5A00	VE DL1A5A09	VE DL1A5A13
blinking light	VE DL1A5L00	VE DL1A5L09	VE DL1A5L13
	Yellow luminous disc, Ø 60 mm, 24 Vac/dc, no marking	Yellow luminous disc, Ø 60 mm, 24 Vac/dc, with marking: STOP  STOP  STOP  STOP	Yellow luminous disc, Ø 60 mm, 24 Vac/dc, with marking: 

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

# 3G Indicator lights



## E2 IL series Indicator lights

Protection degree IP67 and IP69K  
Ambient temperature -25°C ... +70°C



white

E2 11LA210



red

E2 11LA310



green

E2 11LA410



yellow

E2 11LA510



blue

E2 11LA610



orange

E2 11LA810

# 3H Monolithic indicator lights



## E6 IL series Monolithic indicator lights

Protection degree IP67  
Ambient temperature -40°C ... +70°C  
Supply voltage: 12 ... 30 Vac/dc



white

E6 11L1A2110



red

E6 11L1A3110



green

E6 11L1A4110



yellow

E6 11L1A5110



blue

E6 11L1A6110



orange

E6 11L1A8110

# 3I USB and RJ45 socket



## USB series USB socket

Protection degree IP67  
Ambient temperature -25°C ... +70°C



For ordering a black ring selector substitute in the article codes 9 with 1. Example:  
E2 1USB9CAK → E2 1USB1CAK

Back connection	Front connection USB 2.0 Type A integrated female socket	
USB Type A integrated female socket	<b>E2 1USB9CAK</b>	/
outlet with cable in PVC (0.8 m long) and USB Type A male socket	/	<b>E2 1USB9CN0.8</b>
outlet with cable in PVC (1.8 m long) and USB Type A male socket	/	<b>E2 1USB9CN1.8</b>
outlet with cable in PVC (3 m long) and USB Type A male connector	/	<b>E2 1USB9CN3</b>
outlet with cable in PVC (5 m long) and USB Type A male connector	/	<b>E2 1USB9CN5</b>

## RJ45 series RJ45 socket

Protection degree IP67  
Ambient temperature -25°C ... +70°C



For ordering a black ring selector substitute in the article codes 9 with 1. Example:  
E2 1RJ459AAK → E2 1RJ451AAK

Back connection	Front connection RJ45 integrated female socket	
RJ45 integrated female socket	<b>E2 1RJ459AAK</b>	/
Output with cable in PVC (1 m long) and RJ45 male connector	/	<b>E2 1RJ459AN1</b>
Output with cable in PVC (1.5 m long) and RJ45 male connector	/	<b>E2 1RJ459AN1.5</b>
Output with cable in PVC (2.5 m long) and RJ45 male connector	/	<b>E2 1RJ459AN2.5</b>

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

## E6 DM series Potentiometers

Protection degree IP67 and IP69K  
Ambient temperature -40°C ... +80°C  
Potentiometer with Cermet technology



For ordering a black ring selector substitute in the article codes 9 with 1. Example: E6 1DM001K-D119 → E6 1DM001K-D111

Resistance	Article
1000 Ω	E6 1DM001K-D119
2200 Ω	E6 1DM02K2-D119
4700 Ω	E6 1DM04K7-D119
10000 Ω	E6 1DM010K-D119
47000 Ω	E6 1DM047K-D119
100000 Ω	E6 1DM100K-D119
470000 Ω	E6 1DM470K-D119

## Serie E6 IS Buzzer

Protection degree: IP40 with holes  
IP67 without holes  
Ambient temperature -20°C ... +70°C  
Supply voltage: 24 Vac/dc



Buzzer	Lens shape without holes (80 dB)	Lens shape with holes (90 dB)
continuous sound	E6 1IS6B1CV1B	E6 1IS6A1CV1B
pulsing sound	E6 1IS6B1PV1B	E6 1IS6A1PV1B

## Single contact blocks



### CP/CF series Single contact blocks

Protection degree IP20  
Ambient temperature -40°C ... +80°C  
Positive opening NC contacts according to IEC 60947-5-1  
Marks:

10 pcs pack



Contact blocks	Panel fixing	
	Screw connection	Solder connection
Slow action contacts 1NC	E2 CP01G2V1	E2 CP01G2S0
Slow action contacts 1NO	E2 CP10G2V1	E2 CP10G2S0
Slow action contacts 1NC late break	E2 CP01K2V1	E2 CP01K2S0
Slow action contacts 1NO early make	E2 CP10L2V1	E2 CP10L2S0

Contact blocks	Base fixing Screw connection	
	Slow action contacts 1NC	E2 CF01G2V1
Slow action contacts 1NO	E2 CF10G2V1	
Slow action contacts 1NC late break	E2 CF01K2V1	
Slow action 1 contacts NO early make	E2 CF10L2V1	

## Single self-monitored contact blocks



### CP/CF series Single contact blocks

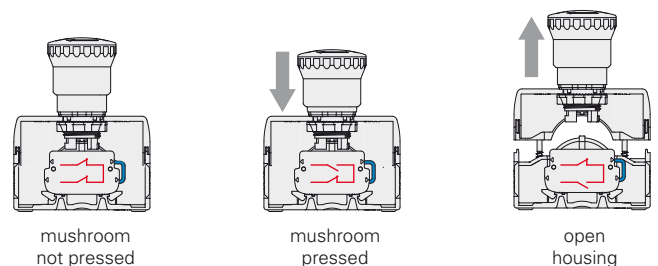
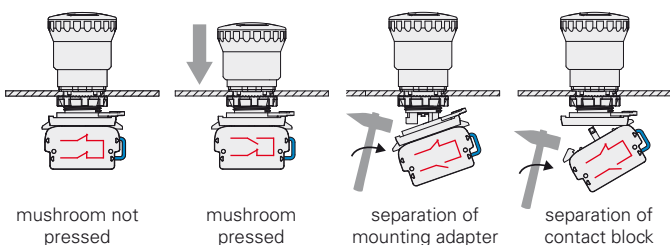
Protection degree IP20  
Ambient temperature -40°C ... +80°C  
Positive opening NC contacts according to IEC 60947-5-1  
Marks:

5 pcs pack



Contact blocks	Panel fixing Screw connection
Slow self-monitored action contacts 1NC	E2 CP01S2V1

Contact blocks	Base fixing (position 3) Screw connection
Slow self-monitored action contacts 1NC	E2 CF01S2V1





### CP/CF series

Double contact blocks

Protection degree IP20  
 Ambient temperature -40°C ... +80°C  
 Positive opening NC contacts according to IEC 60947-5-1  
 Marks:

5 pcs pack



Contact block	Panel fixing Screw connection		
	12 ... 30 Vac/dc	120 Vac	230 Vac
Slow action contacts 1NO+1NC	E2 CP11G2V1 		
Slow action contacts 2NO	E2 CP20G2V1 		
Slow action contacts 2NC	E2 CP02G2V1 		

Contact block	Base fixing Screw connection		
	12 ... 30 Vac/dc	120 Vac	230 Vac
Slow action contacts 1NO+1NC	E2 CF11G2V1 		
Slow action contacts 2NO	E2 CF20G2V1 		
Slow action contacts 2NC	E2 CF02G2V1 		

### 3N LED holders



### LP/LF series

LED holders

Protection degree IP20  
 3 power supply: 12 ... 30 Vac/dc, 120 Vac, 230 Vac  
 Ambient temperature -25°C ... +70°C  
 Marks:

5 pcs pack



LED colour	Actuator colour	Panel fixing		
		Supply voltage		
		12 ... 30 Vac/dc	120 Vac	230 Vac
white	white / yellow	E2 LP1A2V1	E2 LP3A2V1	E2 LP4A2V1
red	red	E2 LP1A3V1	E2 LP3A3V1	E2 LP4A3V1
green	green	E2 LP1A4V1	E2 LP3A4V1	E2 LP4A4V1
blue	blue	E2 LP1A6V1	E2 LP3A6V1	E2 LP4A6V1
orange	orange	E2 LP1A8V1	E2 LP3A8V1	E2 LP4A8V1

LED colour	Actuator colour	Base fixing		
		Supply voltage		
		12 ... 30 Vac/dc	120 Vac	230 Vac
white	white / yellow	E2 LF1A2V1	E2 LF3A2V1	E2 LF4A2V1
red	red	E2 LF1A3V1	E2 LF3A3V1	E2 LF4A3V1
green	green	E2 LF1A4V1	E2 LF3A4V1	E2 LF4A4V1
blue	blue	E2 LF1A6V1	E2 LF3A6V1	E2 LF4A6V1
orange	orange	E2 LF1A8V1	E2 LF3A8V1	E2 LF4A8V1

Attention! Comply with the combination between Led and actuators colours.



## FR, FX, FK series

Protected contact blocks

Housing made of polymer glass-reinforced

Protection degree IP67

Marks:



Contact blocks	One conduit entry M20x1.5
Slow action contacts 1NO+1NC	<b>FR 6E2-M2</b> 
Slow action contacts 2NC	<b>FR 9E2-M2</b> 
Slow action contacts 1NO+2NC	<b>FR 20E2-M2</b> 

Contact blocks	Two conduit entries M20x1.5
Slow action contacts 1NO+1NC	<b>FX 6E2-M2</b> 
Slow action contacts 2NC	<b>FX 9E2-M2</b> 
Slow action contacts 1NO+2NC	<b>FX 20E2-M2</b> 

Contact blocks	One conduit entry M16x1.5
Slow action contacts 1NO+1NC	<b>FK 33E2-M1</b> 
Slow action contacts 2NC	<b>FK 34E2-M1</b> 

## Boxes



## ES series

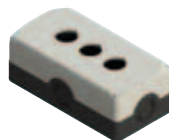
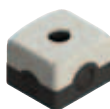
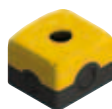
Boxes

Self-extinguishing polymer housing

Protection degree IP67 and IP69K

Ambient temperature -40°C ... +80°C

4 lateral conduit entries + 2 base conduit entries



ES 31001

ES 31000

ES 32000

ES 33000

ES 34000

ES 36000

## ES AC series

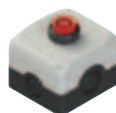
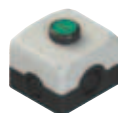
Complete boxes

Self-extinguishing polymer housing

Protection degree IP67 and IP69K

Ambient temperature -25°C ... +70°C

4 lateral conduit entries + 2 base conduit entries



Actuator colour and marking	Contacts	Flush pushbutton Black ring	Projecting pushbutton Black ring
green	Slow action contacts 1NO	ES AC31001	-
red	Slow action contacts 1NC	ES AC31002	ES AC31017
green	Slow action contacts 1NO	ES AC31015	-
red	Slow action contacts 1NC	ES AC31016	ES AC31018


Position and marking	Contacts	Two positions black selector Black ring
	Slow action contacts 1NO	ES AC31019
	Slow action contacts 1NO	ES AC31044
	Slow action contacts 2NO	ES AC31045
	Slow action contacts 2NO	ES AC31046

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


















# ES AC series




## Complete boxes

Self-extinguishing polymer housing   
 Protection degree IP67 and IP69K  
 Ambient temperature -25°C ... +70°C  
 4 lateral conduit entries + 2 base conduit entries












Contacts	Push-Pull	Turn to release	Key release
Slow action contacts 1NC	ES AC31004 	<b>ES AC31003</b> 	ES AC31022 
Slow action contacts 1NC self-monitored	ES AC31081 	ES AC31082 	ES AC31083 
Slow action contacts 2NC	ES AC31009 	ES AC31005 	ES AC31023 
Slow action contacts 1NO+1NC	ES AC31010 	ES AC31006 	ES AC31011 
Slow action contacts 1NO+2NC	ES AC31146 	ES AC31021 	ES AC31024 





















Position and marking	Contacts	Two positions key black selector Black ring
 0	Slow action contacts 1NO	ES AC31020
 1	Slow action contacts 2NO	ES AC31047

Legend:  Maintained  Spring-return  Key extraction position



Contacts	Emergency button Push-Pull yellow illuminated disc, blinking Ø 60 mm, 24 Vac/dc	Emergency button rotary release yellow illuminated disc, blinking Ø 60 mm, 24 Vac/dc	Emergency button key release yellow illuminated disc, blinking Ø 60 mm, 24 Vac/dc
Slow action contacts 1NO+1NC+ block of connection	ES AC31430 	ES AC31433 	ES AC31436 
Slow action contacts 1NO+1NC self-monitored + block of connection	ES AC31431 	ES AC31434 	ES AC31437 
Slow action contacts 1NO+2NC+ block of connection	ES AC31432 	ES AC31435 	ES AC31438 




 1NO	Flush white upper pushbutton	 1NO	Flush green upper pushbutton	 1NO	Flush green upper pushbutton	 1NO	Flush white upper pushbutton	 LED	Red upper indicator light 12 ... 30 Vac/dc	 1NO	Flush green upper pushbutton
 1NO	Flush black lower pushbutton	 1NC 	Projecting red lower pushbutton	 1NC 	Projecting red lower pushbutton	 1NC 	Projecting red central pushbutton	 1NO	Flush green central pushbutton	 1NC 	Projecting red central pushbutton
						 1NO	Flush black lower pushbutton	 1NC 	Projecting red lower pushbutton	 1NO	Flush green lower pushbutton
ES AC32012		ES AC32010		ES AC32011		ES AC33017		ES AC33013		ES AC33016	

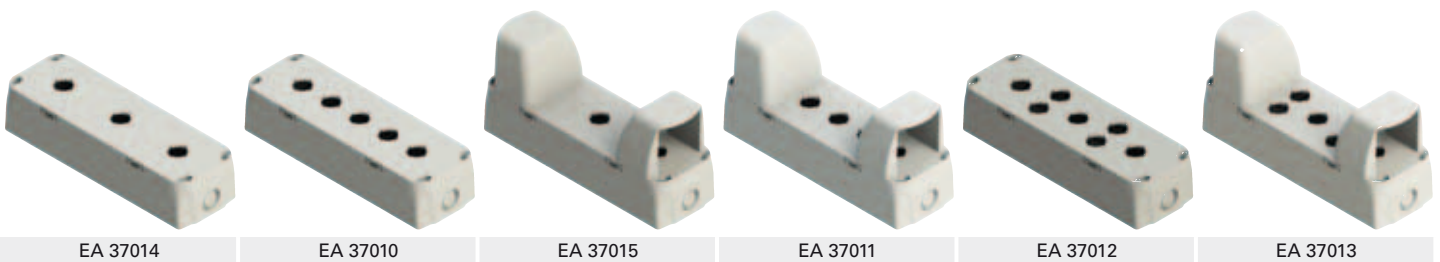
# 3Q Boxes



# EA series

## Boxes

Self-extinguishing polymer housing   
 Protection degree IP65  
 Ambient temperature -40°C ... +80°C  
 2 lateral conduit entries + 2 base conduit entries



EA 37014      EA 37010      EA 37015      EA 37011      EA 37012      EA 37013



## EA AC series Complete boxes

Self-extinguishing polymer housing

Protection degree IP65

Ambient temperature -25°C ... +70°C

2 lateral conduit entries + 2 base conduit entries

For correct operation in compliance with the EN 574 standard, the bimanual controls must be connected to a CS DM ●●●●● safety module for a two-hand control device. See page 34.



	1NO	Mushroom pushbutton		1NO+1NC	Mushroom pushbutton
	1NC	Emergency pushbutton Ø 40		2NC	Emergency pushbutton Ø 40
	1NO	Mushroom pushbutton		1NO+1NC	Mushroom pushbutton
EA AC37011			EA AC37023		

## Accessories

<b>VE GF121A</b>	<b>VE GF720A</b>	<b>VE CH121A1</b>	<b>VE GF151A</b>	<b>E2 1BAC11</b>	<b>E2 1BAC21</b>	<b>VE PT32A00A0</b>	<b>VE TR4A970</b>	<b>VE TR3A770</b>
Polymer fixing ring. 20 pcs packs	Metal fixing ring. 20 pcs packs	Polymer fixing tool for VE GF fixing rings	Adapter provided with panel-fixing ring nut for Ø 22 devices on Ø 30 holes. 10 pcs packs	Fixing adapter with 3 positions for E2 CP contact block and E2 LP LED holder. 10 pcs packs	Fixing adapter with 4 positions for E2 CP contact block. 10 pcs packs	Label holder with shaped hole, for 18x27 mm label, without label. 10 pcs packs	18x27 mm label without marking for cutter or laser engraving. 100 pcs packs.	Protective 18x27 mm label for VE PT label holder, thickness 0.4 mm without marking. 100 pcs packs
<b>VE GP12H1A</b>	<b>VE GP12L1A</b>	<b>VE GP12M1A</b>	<b>VE BC2PV1</b>	<b>VE BC2FV1</b>	<b>VE CA1A1</b>	<b>VE CA1B1</b>	<b>VE CA1D1</b>	<b>VE CA1C1</b>
Shaped ring for single device. 50 pcs packs	Shaped ring for double and triple pushbuttons. 50 pcs packs	Shaped ring for quadruple button. 10 pcs packs	Panel mounting connection block. 10 pcs packs	Connection block for base mounting. 10 pcs packs	Protection hood for flush pushbutton. 10 pcs packs	Shroud for single projecting button. 10 pcs packs	Protection hood for double and triple projecting pushbutton. 10 pcs packs	Protection hood for double flush pushbutton. 10 pcs packs
<b>E2 1TA1A110</b>	<b>VE PR3A70</b>	<b>VE GP32A5A</b>	<b>VE GP32F5A</b>	<b>VE GP32B5A</b>	<b>VE AD3PF9A0</b>			
Black banking plug for Ø 22 mm holes. 10 pcs packs	Transparent dust protection for contact block E2 series. 50 pcs packs	Cylindrical yellow protection guard with 4 slots Ø 40x20 mm	Rectangular open yellow 66x38 h35 mm protection guard	Cylindrical yellow Ø 43x27 mm protection guard	Adapter with Ø 22 hole for front fixing on DIN rail according to EN 60715. 10 pcs packs			

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



**Switches with separate actuator for heavy duty applications FD, FL, FC and FP series**

Housing made of polymer glass-reinforced (FP)  
 Housing made of metal (FD, FL, FC)  
 One conduit entry M20x1.5 (FD, FP, FC)  
 Three conduit entries M20x1.5 (FL)  
 Protection degree IP67  
 Marks:



Slow action contacts 1NO+1NC  
 Slow action contacts 2NC  
 Slow action contacts 1NO+2NC

FD 693-M2	FL 693-M2	FC 3393-M2	FP 693-M2
FD 993-M2	FL 993-M2	FC 3493-M2	FP 993-M2
FD 2093-M2	FL 2093-M2		FP 2093-M2

**Separate actuators**



VF KEYF

VF KEYF1

VF KEYF2

VF KEYF3

VF KEYF7

VF KEYF8

Attention! These loose actuators must be used with FD, FL, FC and FP series only.

**Switches with separate actuator for normal duty applications FR, FX, FK and FW series**

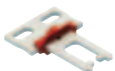
Housing made of polymer glass-reinforced   
 One conduit entry M20x1.5 (FR)  
 Two conduit entries M20x1.5 (FX, FW)  
 One conduit entry M16x1.5 (FK)  
 Protection degree IP67  
 Marks:



Slow action contacts 1NO+1NC  
 Slow action contacts 2NC  
 Slow action contacts 1NO+2NC

FR 693-M2	FX 693-M2	FK 3393-M1	FW 3392-M2
FR 993-M2	FX 993-M2	FK 3493-M1	FW 3492-M2
FR 2093-M2	FX 2093-M2		FW 2092-M2

**Separate actuators**



VF KEYD

VF KEYD1

VF KEYD2

VF KEYD3

VF KEYD5

VF KEYD6

VF KEYD7

VF KEYD8

VF KEYD10

VF KEYD11

Attention! These loose actuators must be used with FR, FX, FK and FW series only.



## Safety magnetic sensor SR series

Housing made of polymer glass-reinforced  
2 m cable or M8 connector versions  
Protection degree IP67 and IP69K  
Marks:

Contacts 2NC (with closed protection)  
Actuation distance



For safety applications, use modules with compatible electrical charge. On the side, the compatible modules by Pizzato. See technical details at page 32.

CS AR-01●●●●<sup>b</sup> CS AR-46●024 CS FS-5●●●●  
CS AR-02●●●●<sup>b</sup> CS AR-94●●●● CS MF●●●●  
CS AR-04●●●●<sup>b</sup> CS AR-95●●●● CS MP●●●●  
CS AR-05●●●● CS AT-0●●●●  
CS AR-06●●●● CS AT-1●●●●  
CS AR-08●●●● CS AT-3●●●●

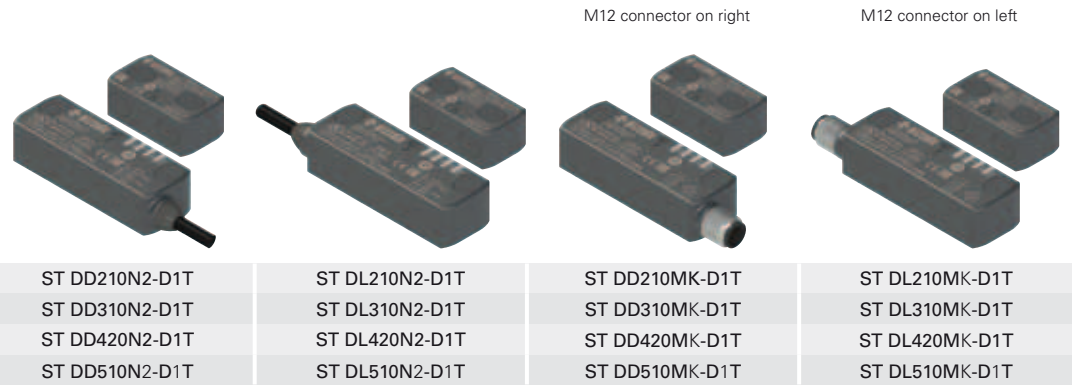
<sup>b</sup> Compatible with modules with production batch later than 06/2014 only.

# Safety sensors with RFID technology



## ST series safety sensors with RFID technology

Housing made of polymer glass-reinforced  
2 m cable or M12 connector versions  
Actuator with high level of coding  
(EN ISO 14119)  
Protection degree IP67 and IP69K  
State signaling LED  
Supply voltage: 24 Vdc  
Marks:



2	1	-	-	-	-
2	1	2	-	-	-
2	1	2	1	-	●
2	1	2	-	1	-

ST DD210N2-D1T	ST DL210N2-D1T	ST DD210MK-D1T	ST DL210MK-D1T
ST DD310N2-D1T	ST DL310N2-D1T	ST DD310MK-D1T	ST DL310MK-D1T
ST DD420N2-D1T	ST DL420N2-D1T	ST DD420MK-D1T	ST DL420MK-D1T
ST DD510N2-D1T	ST DL510N2-D1T	ST DD510MK-D1T	ST DL510MK-D1T

OS safety outputs	O signalling outputs	IS safety inputs	programming inputs I	EDM inputs	Programmable
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For safety applications, use modules with OSSD inputs. On the side, the compatible modules by Pizzato. See technical details at page 32.

CS AR-05●●●●  
CS AR-06●●●●  
CS AR-08●●●●  
CS AT-0●●●●  
CS AT-1●●●●  
CS MP●●●●

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



**Hinged switches  
HP AA series**

Metal housing  
2 m cable or M12 connector versions  
Protection degree IP67 and IP69K  
Marks:

Slow action contacts 1NO+2NC



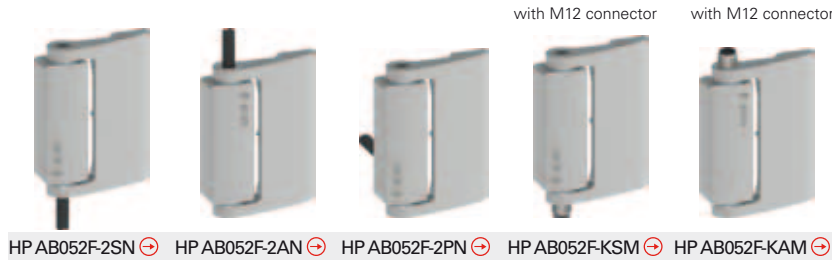
**Additional hinge**



**Hinged switches  
HP AB series**

Metal housing  
2 m cable or M12 connector versions  
Protection degree IP67 and IP69K  
Marks:

Slow action contacts 1NO+2NC



**HC AB**

**Hinged switches  
HX series**

AISI 316L stainless steel housing  
2 m cable or M12 connector versions  
Protection degree IP67 and IP69K  
Marks:

Slow action contacts 2NO+2NC



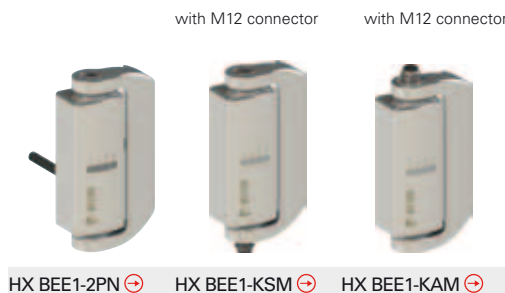
**Additional hinge**



**Electronic Hinged switches  
HX series**

AISI 316L stainless steel housing  
2 m cable or M12 connector versions  
Protection degree IP67 and IP69K  
State signaling LED  
Supply voltage: 24 Vdc  
Marks:

Electronic PNP contacts



The electronic hinged switches of the HX series must be connected to modules with OSSD inputs. On the side, the compatible modules by Pizzato. See technical details at page 32.

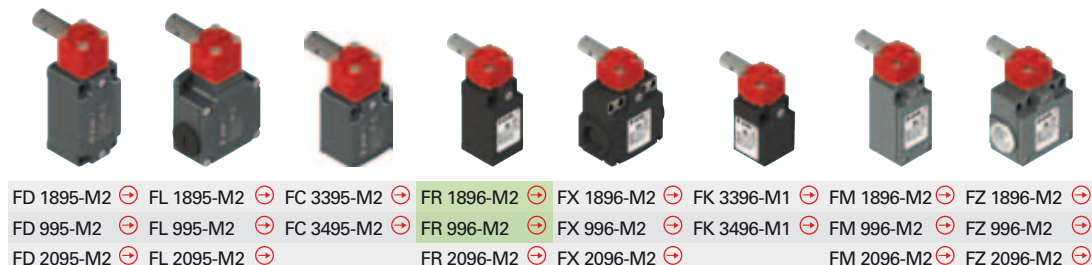
CS AR-05●●●●  
CS AR-06●●●●  
CS AR-08●●●●  
CS AT-0●●●●  
CS AT-1●●●●  
CS MP●●●●  
CS MF●●●●



**Switches for hinged  
protections  
FD, FL and FC series  
FR, FX, FK, FM and FZ series**

Housing made of polymer or metal  
One or three conduit entries M20x1.5  
Protection degree IP67  
Marks:

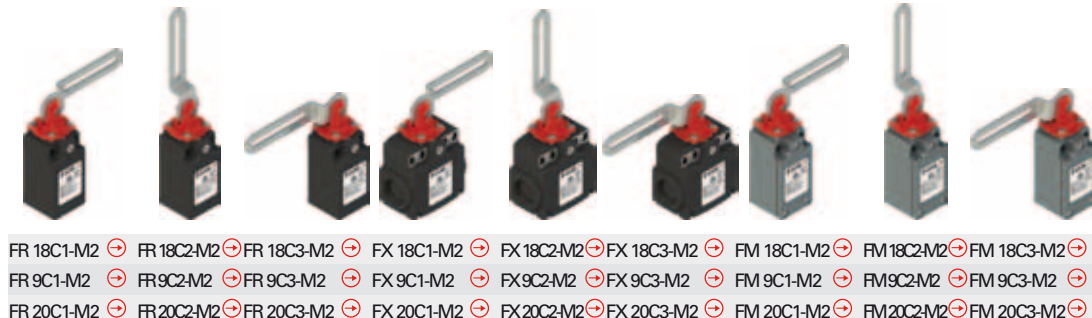
Slow action contacts 1NO+1NC  
Slow action contacts 2NC  
Slow action contacts 1NO+2NC



**Switches with slotted hole  
lever FR, FX, FM series**

Housing made of polymer or metal  
One or two conduit entries M20x1.5  
Protection degree IP67  
Marks:

Slow action contacts 1NO+1NC  
Slow action contacts 2NC  
Slow action contacts 1NO+2NC



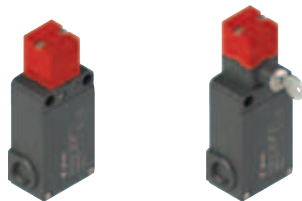


## Switches with solenoid FS series

Housing made of polymer glass-reinforced   
 Three conduit entries M20x1.5  
 Max holding force: 1100 N  
 (with lock): 900 N  
 Protection degree IP67  
 Marks:

Contacts 1NO+1NC (solenoid)  
 Contacts 1NO+2NC (solenoid)  
 Contacts 1NO+1NC (solenoid)+1NC (actuator)

Locked actuator with  
**De-energized** 24 Vac/dc  
 solenoid



Locked actuator with  
**Energized** 24 Vac/dc  
 solenoid



FS 1896D024-M2	FS 1898D024-M2	FS 1896E024-M2
FS 2096D024-M2	FS 2098D024-M2	FS 2096E024-M2
FS 2896D024-M2	FS 2898D024-M2	FS 2896E024-M2

## Switches with manual mechanical delay FD, FP series

Housing made of polymer glass-reinforced   
 (FP)  
 Housing made of metal (FD)  
 One conduit entry M20x1.5  
 Max holding force: 1000 N  
 Protection degree IP67  
 Marks:

Slow action contacts 1NO+1NC  
 Slow action contacts 2NC  
 Slow action contacts 1NO+2NC

With actuator **locking/unlocking**  
 manually timed (20 s)



With actuator **locking/unlocking**  
 manually timed (10 s)

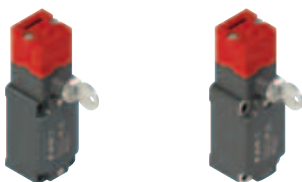


FD 6R2-M2	FP 6R2-M2	FD 6R2-L10M2
FD 9R2-M2	FP 9R2-M2	FD 9R2-L10M2
FD 20R2-M2	FP 20R2-M2	FD 20R2-L10M2

## Switches with lock FD, FP series

Housing made of polymer glass-reinforced   
 (FP)  
 Housing made of metal (FD)  
 One conduit entry M20x1.5  
 Max holding force: 1000 N  
 Protection degree IP67  
 Marks:

Slow action contacts 1NO+1NC  
 Slow action contacts 1NO+2NC



FD 1899-M2	FP 1899-M2
FD 2099-M2	FP 2099-M2

## Separate actuators



VF KEYF      VF KEYF1      VF KEYF2      VF KEYF3      VF KEYF7      VF KEYF8

Attention! These loose actuators must be used with FD, FS and FP series only.



### Actuator entry locking devices.

Padlockable device to lock the actuator entry in order to prevent from the accidental closing of the door behind operators while they are inside the machine. To be used only with series with metal heads.

Article	Description
VF KB1	Actuator entry locking device for FD, FL, FC and FS series only

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



**Switches with solenoid FG series**

Housing made of metal  
 4 poles contact blocks  
 Max holding force: 2800 N  
 Protection degree IP67  
 State signaling LED  
 Three conduit entries M20x1.5  
 Marks:

Locked actuator with **De-energized** 24 Vac/dc solenoid



Locked actuator with **Energized** 24 Vac/dc solenoid



Locked actuator with **De-energized** 24 Vac/dc solenoid. **With lock release device.**



Locked actuator with **De-energized** 24 Vac/dc solenoid. **With lock release device and release push button.**



Locked actuator with **De-energized** 24 Vac/dc solenoid. **With release push button.**



Contacts 1NO+1NC (solenoid)+1NO+1NC (actuator)  
 Contacts 2NC (solenoid)+1NO+1NC (actuator)  
 Contacts 3NC (solenoid)+1NC (actuator)

FG 60AD1D0A	FG 60AD1E0A	FG 60AD5D0A	FG 60AD6D0A	FG 60AD7D0A
FG 60BD1D0A	FG 60BD1E0A	FG 60BD5D0A	FG 60BD6D0A	FG 60BD7D0A
FG 60CD1D0A	FG 60CD1E0A	FG 60CD5D0A	FG 60CD6D0A	FG 60CD7D0A

**Separate actuators**



VF KEYF20



VF KEYF21



VF KEYF22



VF KEYF28

Attention! These loose actuators must be used with FG series only.



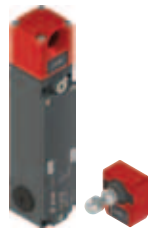
**Actuator entry locking devices.**  
 Padlockable device to lock the actuator entry in order to prevent from the accidental closing of the door behind operators while they are inside the machine. To be used only with series with metal heads.

Article	Description
VF KB2	Actuator entry locking device for FG series only

**NG series safety switches with solenoid and RFID technology**

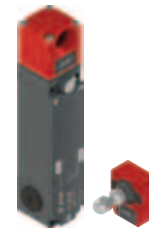
Housing made of metal  
 3 conduit entries M20x1.5  
 Actuator with high level of coding (EN ISO 14119)  
 Max holding force: 9750 N  
 Protection degree IP67 and IP69K  
 State signaling LED  
 Marks:

Locked actuator with **De-energized** 24 Vac/dc solenoid



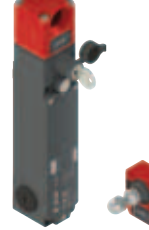
NG 2D1D411A-F31

Locked actuator with **Energized** 24 Vdc solenoid



NG 2D1E411A-F31

Locked actuator with **De-energized** 24 Vdc solenoid. **With lock release device.**



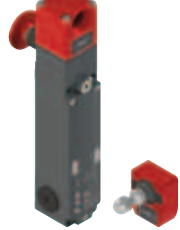
NG 2D5D411A-F31

Locked actuator with **De-energized** 24 Vdc solenoid. **With lock release device and release push button.**



NG 2D6D411A-F31

Locked actuator with **De-energized** 24 Vdc solenoid. **With release push button.**



NG 2D7D411A-F31

**Mode 1**   
 OS safety outputs active with locked and closed protection  
**Mode 2**  
 OS safety outputs active with closed protection

NG 2D1D421A-F31	NG 2D1E421A-F31	NG 2D5D421A-F31	NG 2D6D421A-F31	NG 2D7D421A-F31
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**Inputs and outputs**

2 safety inputs IS1, IS2  
 2 safety outputs OS1, OS2  
 1 signalling output O3: closed protection  
 1 signalling output O4: locked protection  
 1 solenoid activation input I4  
 1 programming input I3



For safety applications, use modules with OSSD inputs. On the side, the compatible modules by Pizzato. See technical details at page 32.

- CS AR-05●●●●●
- CS AR-06●●●●●
- CS AR-08●●●●●
- CS AT-0●●●●●
- CS AT-1●●●●●
- CS MP●●●●●

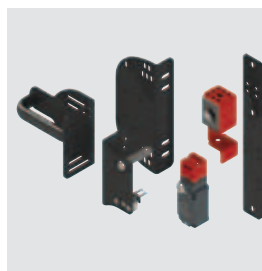


Safety handle composed of:

- LOCK OUT device
- plate for FG series
- Possibility to adjust the handle on 3 different axes through slotted brackets.
- Possibility of application on swing and sliding doors, both right and left.

Switch not included.  
See page 29.

Article	Description
VF AP-P11B-200P	Safety handle for FG series



Safety handle composed of:

- LOCK OUT device
- plate for FD series
- Possibility to adjust the handle on 3 different axes through slotted brackets.
- Possibility of application on swing and sliding doors, both right and left.

Switch not included.  
See page 25 or 28

Article	Description
VF AP-P11A-200P	Safety handle for FD series

## Safety handles P-KUBE 2 line



Safety handle composed of:

- LOCK OUT device
- plate for NG series
- Possibility to adjust the handle on 3 different axes through slotted brackets.
- Possibility of application on swing and sliding doors, both right and left.

Switch not included.  
See page 29.

Article	Description
AP G1A-111P	Safety handle for NG series



Safety handle composed of:

- plate for NG series
- Possibility to adjust the handle on 3 different axes through slotted brackets.
- Possibility of application on swing and sliding doors, both right and left.

Switch not included.  
See page 29.

Article	Description
AP G0B-111P	Safety handle for NG series

## Safety handles VF AP-S

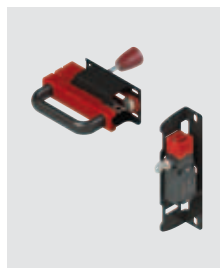


Safety handle composed of:

- emergency opening internal lever
- plate for FG series
- Possibility of application on swing and sliding doors, both right and left.

Switch not included.  
See page 29.

Article	Description
VF AP-S13BP-300	Safety handle for FG series



Safety handle composed of:

- emergency opening internal lever
- plate for FD series
- Possibility of application on swing and sliding doors, both right and left.

Switch not included.  
See page 25 or 28.

Article	Description
VF AP-S13AP-301	Safety handle for FD series

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



**Rope switches for emergency stop FD, FL, FC and FP series**

Housing made of polymer glass-reinforced (FP)  
 Housing made of metal (FD, FL, FC)  
 One conduit entries M20x1.5 (FD, FP, FC)  
 Three conduit entries M20x1.5 (FL)  
 Protection degree IP67  
 Marks:

Contacts 1NO+1NC  
 Contacts 2NC  
 Contacts 1NO+2NC

Longitudinal head				Transversal head			
FD 1878-M2	FL 1878-M2	FC 3378-M2	FP 1878-M2	FD 1883-M2	FD 1884-M2	FL 1883-M2	FL 1884-M2
FD 978-M2	FL 978-M2	FC 3478-M2	FP 978-M2	FD 983-M2	FD 984-M2	FL 983-M2	FL 984-M2
FD 2078-M2	FL 2078-M2		FP 2078-M2	FD 2083-M2	FD 2084-M2	FL 2083-M2	FL 2084-M2

**Rope switches for simple stop FD, FL, FC and FP series**

Housing made of polymer glass-reinforced (FP)  
 Housing made of metal (FD, FL, FC)  
 One conduit entries M20x1.5 (FD, FP, FC)  
 Three conduit entries M20x1.5 (FL)  
 Protection degree IP67  
 Marks:

Contacts 1NO+1NC  
 Contacts 2NC  
 Contacts 1NO+2NC

Longitudinal head				Transversal head	
FD 1879-M2	FL 1879-M2	FC 3379-M2	FP 1879-M2	FD 1880-M2	FL 1880-M2
FD 979-M2	FL 979-M2	FC 3479-M2	FP 979-M2	FD 980-M2	FL 980-M2
FD 2079-M2	FL 2079-M2		FP 2079-M2	FD 2080-M2	FL 2080-M2

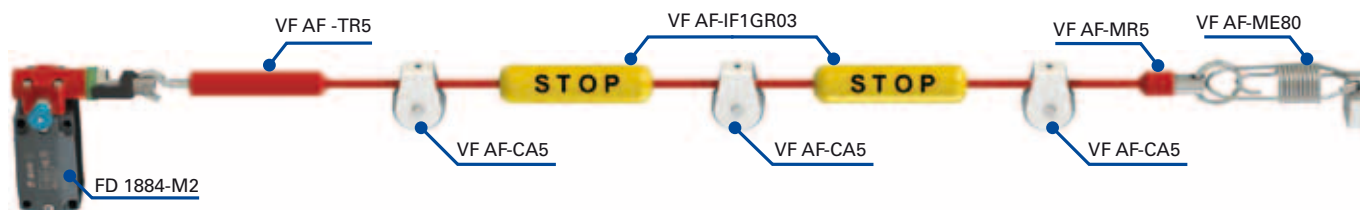
**Rope installation accessories**

Adjustable stay bolt	Stay bolt	End clamp	Stainless steel adjustable stay bolt	Stay bolt	Safety spring for longitudinal heads	Safety spring for transversal heads	Ø 5 mm rope 100 m roll	Rope function indicators. Text "STOP"	Pulley	Angular pulley

**Rope installation accessories kits, FAST line**

Article	Kit content
VF AF-KT10M0	1x VF AF -TR5 1x VF AF -MR5 1x VF F05-010 
VF AF-KT20M0	1x VF AF -TR5 1x VF AF -MR5 1x VF F05-020 
VF AF-KT35M0	1x VF AF -TR5 1x VF AF -MR5 1x VF F05-035 

**Application examples**



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





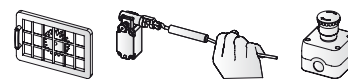
The CS series safety modules have been studied with clear aims of safety and reliability for the product. The design, development and production of these units have been faced with the passion for quality that distinguishes Pizzato Elettrica.

During the design phase, principles of over-sizing were adopted, and the circuit schemes have been checked by independent third party institutes. Also the selection of the components used has been made with accurate quality aims, and the basic parts, such as relays with forced guided contacts, have been chosen among the best brands existing. The production phase itself, completely developed within the company Pizzato Elettrica, is supervised with a functional testing on 100% of the production. Every single piece produced is verified in a computerised testing station that prints the safety module label, identified from a unique serial number, only when the product passes every test.

Pizzato Elettrica has improved also the more practical aspects, using compact housings and with LED signals of the operation state of the modules. Particular attention has been paid to the connection possibilities, allowing the customer to choose between fixed clamps or plug-in connectors and screw or spring terminals. Finally, the range of products provides different supply tensions with a wide tolerance on nominal values to avoid any

problem in the less industrialised countries.

## Safety modules for emergency stop and gate monitoring



Product code	Supply voltages	Output contacts instantaneous	For applications up to		Autom. or manual start	Monitored start	Type of inputs (7)				Kind of connection (4)			Housing dimensions (mm)
			PL	SIL			Saf. Cat.	NO	NC	NO/NC	V	M	X	
CS AR-01V024	24 Vac/dc	2NO+1NC	e	3	4	■	■	-	⊗	-	■	■	■	22.5 x 114
CS AR-01V120	120 Vac	2NO+1NC	e	3	4	■	■	-	⊗	-	■	■	■	22.5 x 114
CS AR-01V230	230 Vac	2NO+1NC	e	3	4	■	■	-	⊗	-	■	■	■	22.5 x 114
CS AR-01VE02	10 ... 30 Vdc	2NO+1NC	e	3	4	■	■	-	■	-	■	■	■	22.5 x 114
CS AR-02V024	24 Vac/dc	3NO	e	3	4	■	■	-	⊗	-	■	■	■	22.5 x 114
CS AR-02V120	120 Vac	3NO	e	3	4	■	■	-	⊗	-	■	■	■	22.5 x 114
CS AR-02V230	230 Vac	3NO	e	3	4	■	■	-	⊗	-	■	■	■	22.5 x 114
CS AR-02VE02	10 ... 30 Vdc	3NO	e	3	4	■	■	-	■	-	■	■	■	22.5 x 114
CS AR-04V024	24 Vac/dc	3NO+1NC	e	3	4	■	■	-	■	-	■	■	■	22.5 x 114
CS AR-04V120	120 Vac	3NO+1NC	e	3	4	■	■	-	⊗	-	■	■	■	22.5 x 114
CS AR-04V230	230 Vac	3NO+1NC	e	3	4	■	■	-	⊗	-	■	■	■	22.5 x 114
CS AR-05V024	24 Vac/dc	3NO+1NC	e	3	4	■	-	■	■	-	■	■	■	22.5 x 114
CS AR-05V120	120 Vac	3NO+1NC	e	3	4	■	-	■	■	-	■	■	■	22.5 x 114
CS AR-05V230	230 Vac	3NO+1NC	e	3	4	■	-	■	■	-	■	■	■	22.5 x 114
CS AR-06V024	24 Vac/dc	3NO+1NC	e	3	4	-	■	■	■	-	■	■	■	22.5 x 114
CS AR-06V120	120 Vac	3NO+1NC	e	3	4	-	■	■	■	-	■	■	■	22.5 x 114
CS AR-06V230	230 Vac	3NO+1NC	e	3	4	-	■	■	■	-	■	■	■	22.5 x 114
CS AR-07M024	24 Vac/dc	4NO+1NC	e	3	4	■	■	-	-	-	■	■	■	22.5 x 149
CS AR-08U012	12 Vdc	2NO	e	3	4	■	■	■	■	-	■	■	■	22.5 x 114
CS AR-08V024	24 Vac/dc	2NO	e	3	4	■	■	■	■	-	■	■	■	22.5 x 114
CS AR-08V120	120 Vac	2NO	e	3	4	■	■	■	■	-	■	■	■	22.5 x 114
CS AR-08V230	230 Vac	2NO	e	3	4	■	■	■	■	-	■	■	■	22.5 x 114
CS AR-20V024	24 Vac/dc	2NO	e	3	3	■	-	■	-	-	■	■	■	22.5 x 114
CS AR-20V120	120 Vac	2NO	e	3	3	■	-	■	-	-	■	■	■	22.5 x 114
CS AR-20V230	230 Vac	2NO	e	3	3	■	-	■	-	-	■	■	■	22.5 x 114
CS AR-21V024	24 Vac/dc	2NO	e	3	3	-	■	■	-	-	■	■	■	22.5 x 114
CS AR-21V120	120 Vac	2NO	e	3	3	-	■	■	-	-	■	■	■	22.5 x 114
CS AR-21V230	230 Vac	2NO	e	3	3	-	■	■	-	-	■	■	■	22.5 x 114
CS AR-22V024	24 Vac/dc	3NO+1NC	e	3	3	■	-	■	-	-	■	■	■	22.5 x 114
CS AR-22V120	120 Vac	3NO+1NC	e	3	3	■	-	■	-	-	■	■	■	22.5 x 114
CS AR-22V230	230 Vac	3NO+1NC	e	3	3	■	-	■	-	-	■	■	■	22.5 x 114
CS AR-23V024	24 Vac/dc	3NO+1NC	e	3	3	-	■	■	-	-	■	■	■	22.5 x 114
CS AR-23V120	120 Vac	3NO+1NC	e	3	3	-	■	■	-	-	■	■	■	22.5 x 114
CS AR-23V230	230 Vac	3NO+1NC	e	3	3	-	■	■	-	-	■	■	■	22.5 x 114
CS AR-24V024	24 Vac/dc	4NO+1NC	e	3	3	■	-	■	-	-	■	■	■	22.5 x 114
CS AR-25V024	24 Vac/dc	4NO+1NC	e	3	3	-	■	■	-	-	■	■	■	22.5 x 114
CS AR-40V024	24 Vac/dc	2NO	d	2	2	■	-	■	-	-	■	■	■	22.5 x 91
CS AR-41V024	24 Vac/dc	2NO	d	2	2	-	■	■	-	-	■	■	■	22.5 x 91
CS AR-46V024	24 Vac/dc	1NO	c	1	1	■	-	■	-	■	■	■	■	22.5 x 91
NEW CS AR-91V024	24 Vac/dc	2NO+1PNP	e	3	4	■	■	■	-	■	-	■	■	22.5 x 91

⊗ Compatible with modules with production batch later than 06/2014 only.

### Code structure

## CS AR-01V024

Kind of connection	Supply voltage
<b>V</b> screw terminals	<b>024</b> 24 Vac/dc
<b>M</b> connector with screw terminals	<b>120</b> 120 Vac
<b>X</b> connector with spring terminals	<b>230</b> 230 Vac



V screw terminals



M connector with screw terminals



X connector with spring terminals



## 5B

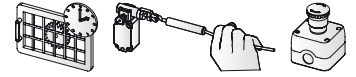
## Safety modules for safety mats and safety edges with 4 wires technology



Product code	Supply voltages	Output contacts		For applications up to		Autom. or manual start	Monitored start	Type of inputs (7)				Kind of connection (4)			Housing dimensions (mm)	
		instantaneous	delayed	PL	SIL			Saf. Cat.	Electromechanical	Electrosensible	Safety magnetic	4-wire	V	M		X
CS AR-51V024	24 Vac/dc	2NO		e	3	4	■	■	■	-	-	■	■	■	■	22.5 x 114

## 5C

## Safety modules for emergency stop and gate monitoring with delayed contacts



Product code	Supply voltages	Output contacts		For applications up to		Autom. or manual start	Monitored start	Type of inputs (7)				Kind of connection (4)			Housing dimensions (mm)	
		instantaneous	delayed	PL	SIL			Saf. Cat.	Electromechanical	Electrosensible	Safety magnetic	4-wire	V	M		X
CS AT-0(3)V024	24 Vac/dc	2NO+1NC	2NO	e	3	4 (2)	■	■	■	■	■	-	■	■	■	45 x 114
CS AT-0(3)V120	120 Vac	2NO+1NC	2NO	e	3	4 (2)	■	■	■	■	■	-	■	■	■	45 x 114
CS AT-0(3)V230	230 Vac	2NO+1NC	2NO	e	3	4 (2)	■	■	■	■	■	-	■	■	■	45 x 114
CS AT-1(3)V024	24 Vac/dc	3NO	2NO	e	3	4 (2)	■	■	■	■	■	-	■	■	■	45 x 114
CS AT-1(3)V120	120 Vac	3NO	2NO	e	3	4 (2)	■	■	■	■	■	-	■	■	■	45 x 114
CS AT-1(3)V230	230 Vac	3NO	2NO	e	3	4 (2)	■	■	■	■	■	-	■	■	■	45 x 114
CS AT-3(3)V024	24 Vac/dc	2NO	1NO	e	3	4 (2)	■	■	■	-	■	-	■	■	■	45 x 114

## 5D

## Safety timer module



Product code	Supply voltages	Functions	Output contacts		For applications up to		Autom. or manual start	Monitored start	Type of inputs (7)				Kind of connection (4)			Housing dimensions (mm)
			instantaneous	delayed	PL	SIL			Saf. Cat.	Electromechanical	Electrosensible	Safety magnetic	4-wire	V	M	
CS FS-1(3)V024	24 Vac/dc	delay on	1NO+2NC	①	①	①	-	-	■	-	-	-	■	■	■	45 x 114
CS FS-1(3)V120	120 Vac	delay on	1NO+2NC	①	①	①	-	-	■	-	-	-	■	■	■	45 x 114
CS FS-1(3)V230	230 Vac	delay on	1NO+2NC	①	①	①	-	-	■	-	-	-	■	■	■	45 x 114
CS FS-2(3)VU24	24 Vdc	delay on	1NO+1NC+1CO	d	2	3	-	-	■	-	-	-	■	■	■	45 x 114
CS FS-2(3)V120	120 Vac	delay on	1NO+1NC+1CO	d	2	3	-	-	■	-	-	-	■	■	■	45 x 114
CS FS-3(3)VU24	24 Vdc	delay off	1NO+1NC+1CO	d	2	3	-	-	■	-	-	-	■	■	■	45 x 114
CS FS-3(3)V120	120 Vac	delay off	1NO+1NC+1CO	d	2	3	-	-	■	-	-	-	■	■	■	45 x 114
CS FS-5(3)VU24	24 Vdc	delay off	1NO+1NC+1CO	d	2	3	■	-	■	-	■	-	■	■	■	45 x 114
CS FS-5(3)V120	120 Vac	delay off	1NO+1NC+1CO	d	2	3	■	-	■	-	■	-	■	■	■	45 x 114

### Legend

- Available with this product
- Not available with this product
- ① Dependent from the base module
- ② Safety category 4 for instantaneous contacts, category 3 for delayed contacts

- ③ Delayed contacts releasing time
  - 0 fixed time
  - 1 from 0.3 to 3 s, step 0.3 s
  - 2 from 1 to 10 s, step 1 s
  - 3 from 3 to 30 s, step 3 s
  - 4 from 30 to 300 s, step 30 s

- ④ Kind of connection
  - V screw terminals
  - M connector with screw terminals
  - X connector with spring terminals

- ⑤ Releasing time in absence of power supply
  - TF0.5 0.5 s fixed time
  - TF1 1 s fixed time
  - TF2 2 s fixed time
  - TF3 3 s fixed time

- ⑥ Releasing time in absence of power supply
  - TF1 1 s fixed time
  - ... ..
  - TF12 12 s fixed time

- ⑦ Type of inputs
  - Electromechanical contacts
  - Electrosensible devices with PNP output
  - Safety magnetic sensor
  - Safety mats and safety edges with 4 wires technology

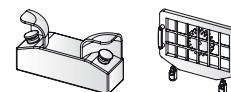
### Markings and quality marks



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



## Safety modules for bimanual controls or synchronism check



5E

Product code	Supply voltages	Output contacts			Safety category	Autom. or manual start	Monitored start	Type of inputs (7)				Kind of connection (4)			Housing dimensions (mm)
		instantaneous	instantaneous	instantaneous								V	M	X	
CS DM-01V024	24 Vac/dc	3NO+1NC			IIIC (EN 547)	-	-	■	-	-	-	■	■	■	22.5 x 114
CS DM-01V120	120 Vac	3NO+1NC			IIIC (EN 547)	-	-	■	-	-	-	■	■	■	22.5 x 114
CS DM-01V230	230 Vac	3NO+1NC			IIIC (EN 547)	-	-	■	-	-	-	■	■	■	22.5 x 114
CS DM-02V024	24 Vac/dc	2NO			IIIC (EN 547)	-	-	■	-	-	-	■	■	■	22.5 x 114
CS DM-02V120	120 Vac	2NO			IIIC (EN 547)	-	-	■	-	-	-	■	■	■	22.5 x 114
CS DM-02V230	230 Vac	2NO			IIIC (EN 547)	-	-	■	-	-	-	■	■	■	22.5 x 114
CS DM-20V024	24 Vac/dc	2NO			IIIA (EN 547)	-	-	■	-	-	-	■	■	■	22.5 x 114
CS DM-20V120	120 Vac	2NO			IIIA (EN 547)	-	-	■	-	-	-	■	■	■	22.5 x 114
CS DM-20V230	230 Vac	2NO			IIIA (EN 547)	-	-	■	-	-	-	■	■	■	22.5 x 114

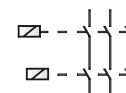
## Safety module for standstill monitor



5F

Product code	Supply voltages	Output contacts			For applications up to			Autom. or manual start	Monitored start	Type of inputs (7)				Kind of connection (4)			Housing dimensions (mm)	
		instantaneous	instantaneous	instantaneous	PL	SIL	Saf. Cat.							V	M	X		
CS AM-01VE01	24 ... 230 Vac/dc	2NO+1NC			d	2	3	-	-	-	-	-	-	-	■	■	■	45 x 114

## Expansion modules with instantaneous contacts or delayed contacts at de-energizing



5G

Product code	Supply voltages	Output contacts			For applications up to			Releasing time at de-energization	Type of inputs (7)				Kind of connection (4)			Housing dimensions (mm)
		instantaneous	delayed	feedback	PL	SIL	Saf. Cat.						V	M	X	
CS ME-01V024	24 Vac/dc	5NO+1NC	-	1NC	①	①	①	-	■	-	-	-	■	■	■	22.5 x 114
CS ME-02VU24	24 Vdc	4NO+2NC	-	1NC	①	①	①	-	■	-	-	-	■	■	■	22.5 x 114
CS ME-03VU24	24 Vdc	3NO	-	1NC	①	①	●	-	■	■	-	-	■	■	■	22.5 x 91
CS ME-20VU24-TF⑤	24 Vdc	-	4NO+2NC	1NC	①	①	●	up to 3 s (fixed)	■	-	-	-	■	■	■	22.5 x 114
CS ME-30VU24-TF⑥	24 Vdc	-	4NO+2NC	1NC	①	①	●	up to 12 s (fixed)	■	-	-	-	■	■	■	45 x 114
CS ME-31VU24-TS12	24 Vdc	-	4NO+2NC	1NC	①	①	●	from 1 to 12 s (adjustable)	■	-	-	-	■	■	■	45 x 114

### Code structure

## CS AR-01V024

Kind of connection		Supply voltage	
<b>V</b>	screw terminals	<b>024</b>	24 Vac/dc
<b>M</b>	connector with screw terminals	<b>120</b>	120 Vac
<b>X</b>	connector with spring terminals	<b>230</b>	230 Vac



V screw terminals



M connector with screw terminals



X connector with spring terminals

- Available with this product
- Not available with this product
- ① Dependent from the base module
- ② Safety category 4 for instantaneous contacts, category 3 for delayed contacts

- ③ Delayed contacts releasing time
  - 0 fixed time
  - 1 from 0.3 to 3 s, step 0.3 s
  - 2 from 1 to 10 s, step 1 s
  - 3 from 3 to 30 s, step 3 s
  - 4 from 30 to 300 s, step 30 s

- ④ Kind of connection
  - V screw terminals
  - M connector with screw terminals
  - X connector with spring terminals

- ⑤ Releasing time in absence of power supply
  - TF0.5 0.5 s fixed time
  - TF1 1 s fixed time
  - TF2 2 s fixed time
  - TF3 3 s fixed time

- ⑥ Releasing time in absence of power supply
  - TF1 1 s fixed time
  - ... ..
  - TF12 12 s fixed time

- ⑦ Type of inputs
  - Electromechanical contacts
  - Electrosensible devices with PNP output
  - Safety magnetic sensor
  - Safety mats and safety edges with 4 wires technology

### Markings and quality marks





Pizzato Elettrica is pleased to present a new series of programmable safety modules, resulting from the decades-long experience of the company in the machine safety sector.

A CS MP series module is a programmable safety device, which allows several safety functions to be carried out simultaneously. This series of products has been specifically developed in order to meet the demands from manufacturers of machinery featuring a medium/low number of safety functions. As an indication, these modules are able to manage minimum applications comparable to the functions carried out by 3 - 4 traditional electromechanical safety modules and circuits having up to a few dozen inputs. The Gemnis Studio program is a graphic development environment for the creation, simulation and debug of programs suitable to be entered in the modules belonging to the Gemnis line.

**This software is licensed to the user who wishes to program the said modules, subject to prior registration in our web site: [www.gemnis.com](http://www.gemnis.com).**



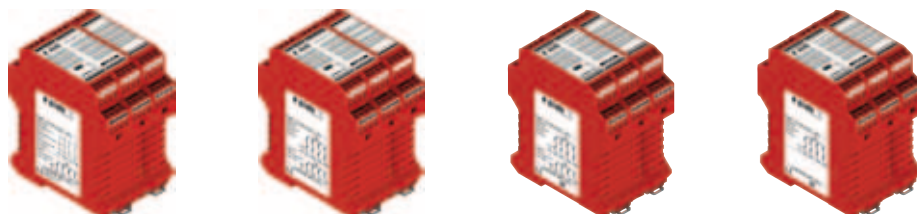
Article	CS MP201M0	CS MP202M0	CS MP203M0	CS MP204M0	CS MP205M0
Dimensions (H x W x D)	111,5 x 45 x 99 mm	111,5 x 45 x 99 mm	111,5 x 45 x 99 mm	111,5 x 45 x 99 mm	111,5 x 45 x 99 mm
Safety inputs (Ix)	8	16	12	12	4
Decoupled digital inputs(Jx)	/	/	/	/	4
Inputs for analog signals type 4-20 mA (Cx)	/	/	/	/	/
Inputs for signals with frequency 0 to 4 KHz (speed control) (Fx)	/	/	/	/	4
Test outputs (Tx)	8	4	4	4	4
Semiconductor signaling output circuits (Ox)	4	4	4	4	4
Semiconductor safety output circuits (OSx)	/	4PNP	/	/	4PNP
Relay safety output circuits	3NO	/	3NO+1NO	3NO	/



Article	CS MP206M0	CS MP207M0	CS MP208M0	CS MP301M0
Dimensions (H x W x D)	111,5 x 45 x 99 mm	111,5 x 45 x 99 mm	111,5 x 45 x 99 mm	111,5 x 67,5 x 99 mm
Safety inputs (Ix)	8	4	16	24
Decoupled digital inputs(Jx)	/	/	/	/
Inputs for analog signals type 4-20 mA (Cx)	/	2	/	/
Inputs for signals with frequency 0 to 4 KHz (speed control) (Fx)	/	/	/	/
Test outputs (Tx)	4	4	4	8
Semiconductor signaling output circuits (Ox)	12	4	/	4
Semiconductor safety output circuits (OSx)	4PNP	4PNP	8PNP	/
Relay safety output circuits	/	/	/	3NO



Article	CS MP302M0	CS MP303M0	CS MP304M0	CS MP305M0
Dimensions (H x W x D)	111,5 x 67,5 x 99 mm	111,5 x 67,5 x 99 mm	111,5 x 67,5 x 99 mm	111,5 x 67,5 x 99 mm
Safety inputs (Ix)	24	32	28	24
Decoupled digital inputs(Jx)	/	/	/	/
Inputs for analog signals type 4-20 mA (Cx)	/	/	/	/
Inputs for signals with frequency 0 to 4 KHz (speed control) (Fx)	/	/	/	/
Test outputs (Tx)	12	4	4	4
Semiconductor signaling output circuits (Ox)	4	4	4	12
Semiconductor safety output circuits (OSx)	4PNP	4PNP	/	4PNP
Relay safety output circuits	/	/	3NO+1NO	/



Article	CS MP306M0	CS MP307M0	CS MP308M0	CS MP309M0
Dimensions (H x W x D)	111,5 x 67,5 x 99 mm	111,5 x 67,5 x 99 mm	111,5 x 67,5 x 99 mm	111,5 x 67,5 x 99 mm
Safety inputs (Ix)	20	8	24	32
Decoupled digital inputs (Jx)	/	4	/	/
Inputs for analog signals type 4-20 mA (Cx)	/	2	/	/
Inputs for signals with frequency 0 to 4 KHz (speed control) (Fx)	/	4	/	/
Test outputs (Tx)	4	4	4	4
Semiconductor signaling output circuits (Ox)	12	4	8	/
Semiconductor safety output circuits (OSx)	/	4PNP	8PNP	8PNP
Relay safety output circuits	3NO+1NO	/	/	/



Article	CS MP401M0	CS MP402M0	CS MP403M0
Dimensions (H x W x D)	111,5 x 90 x 99 mm	111,5 x 90 x 99 mm	111,5 x 90 x 99 mm
Safety inputs (Ix)	40	32	40
Decoupled digital inputs (Jx)	/	/	/
Inputs for analog signals type 4-20 mA (Cx)	/	/	/
Inputs for signals with frequency 0 to 4 KHz (speed control) (Fx)	/	/	/
Test outputs (Tx)	4	12	4
Semiconductor signaling output circuits (Ox)	12	8	8
Semiconductor safety output circuits (OSx)	4PNP	8PNP	8PNP
Relay safety output circuits	/	/	/

The list could be updated. For the latest products, see [www.gemnis.com](http://www.gemnis.com)

## Pre-programmed multifunction modules CS MF



An increasing number of users requires products to carry out several safety functions without needing the complex management of a safety PLC or the complex wiring of many traditional safety modules. Such problems mainly arise when the safety functions are usually greater than 3 or 4, and/or when managing a safety PLC software (software purchase, training courses, programming of all modules, software management and filing, updates etc.) turns out to be difficult in relation to problem complexity. Pizzato Elettrica introduces Gemnis, a series of electronic modules which are pre-programmed for specific customers' applications or for generic safety macro-functions commonly used in industrial contexts. This page lists some of the products pre-programmed for generic macro-functions commonly addressed to the industrial sector. Such products can be freely purchased even individually. Any customer requiring a product pre-programmed on particular specifications can contact the Pizzato Elettrica technical department (minimum volumes are requested).

The resulting advantages for customers typically include simple product management (purchase of finished components) and reduced general costs (no software to be installed and managed, products immediately operative).

All the Gemnis series products are able to provide circuit solutions at SIL3 (EN 62061), PLe (EN 13849) or category 4 (EN 954-1) levels.

### CS MF201M0-P●●

Hardware code

●● hardware code

Program code

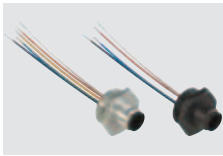
P●● program code

Connection type

M connector with screw terminals

Supply voltage

0 24 Vdc



**Male connector M12**  
Protection degree IP67  
Wall side thread PG 13.5 or M20 x 1.5

	Article	Description
M20 x1.5 threading	VF CNM4MM	4 poles M12 connector made of metal
	VF CNM5MM	5 poles M12 connector made of metal
	VF CNM8MM	8 poles M12 connector made of metal
	VF CNP4MM	4 poles M12 connector made of plastic
	VF CNP5MM	5 poles M12 connector made of plastic
	VF CNP8MM	8 poles M12 connector made of plastic
PG 13.5 threading	VF CNM4PM	4 poles M12 connector made of metal
	VF CNM5PM	5 poles M12 connector made of metal
	VF CNM8PM	8 poles M12 connector made of metal
	VF CNP4PM	4 poles M12 connector made of plastic
	VF CNP5PM	5 poles M12 connector made of plastic



**Female connector M8 and M12**  
Protection degree IP67 and IP69K  
Self-locking vibration-damping ring nut.  
Gold plated contact (resistance < 5 mΩ)

Article	Description
VF CA4PD3K	4 poles straight M8 connector, length 3 m
VF CA4PD5K	4 poles straight M8 connector, length 5 m
VF CA4PD3M	4 poles straight M12 connector, length 3 m
VF CA4PD5M	4 poles straight M12 connector, length 5 m
VF CA4PD0M	4 poles straight M12 connector, length 10 m
VF CA5PD3M	5 poles straight M12 connector, length 3 m
VF CA5PD5M	5 poles straight M12 connector, length 5 m
VF CA5PD0M	5 poles straight M12 connector, length 10 m
VF CA8PD5M	8 poles straight M12 connector, length 5 m
VF CA8PD0M	8 poles straight M12 connector, length 10 m
VF CA12PD5M	12 poles straight M12 connector, length 5 m
VF CA12PD0M	12 poles straight M12 connector, length 10 m



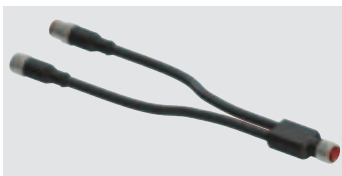
**M12 sockets, field wireable**  
Technopolymer connector body  
Gold-plated contacts  
Screw terminals for wiring  
Protection degree IP67

Article	Description
VF CBMP4DM04	Field wireable M12 socket, 4 poles straight, for multipolar cables from Ø 4 to Ø 6.5 mm
VF CBMP5DM04	Field wireable M12 socket, 5 poles straight, for multipolar cables from Ø 4 to Ø 6.5 mm
VF CBMP8DM04	Field wireable M12 socket, 8 poles straight, for multipolar cables from Ø 4 to Ø 7 mm



**M12 plugs, field wireable**  
Technopolymer connector body  
Gold-plated contacts  
Screw terminals for wiring  
Protection degree IP67

Article	Description
VF CCMP5DM04	Field wireable M12 plug, 5 poles straight, for multipolar cables from Ø 4 to Ø 6.5 mm
VF CCMP8DM04	Field wireable M12 plug, 8 poles straight, for multipolar cables from Ø 4 to Ø 7 mm



**M12 connectors, Y-shaped, for series connections**  
Polyurethane connector body  
Protection degree IP67  
Gold-plated contacts (resistance < 5 mΩ)  
Self locking ring nut

Article	Description
VF CY201P0	M12 connectors, Y-shaped, for series connections



**Extension cable with M12 connectors**  
Polyurethane connector body  
Protection degree IP67  
Gold-plated contacts (resistance < 5 mΩ)  
Self locking ring nut

Article	Description
VF CA5PD3M-MD	5 poles straight M12 connector, length 3 m
VF CA5PD5M-MD	5 poles straight M12 connector, length 5 m
VF CA5PD0M-MD	5 poles straight M12 connector, length 10 m
VF CA8PD3M-MD	8 poles straight M12 connector, length 3 m
VF CA8PD5M-MD	8 poles straight M12 connector, length 5 m



**M12 terminating plugs for series connections**  
Polyurethane connector body  
Protection degree IP67  
Gold-plated contacts (resistance < 5 mΩ)  
Self locking ring nut

Article	Description
VF CY100P0	M12 terminating plugs for series connections, 4 poles



**Safety screws Torx**  
Pan head screws with Torx fitting and pin, stainless steel.  
Where required for applications conforming to EN ISO 14119 use a thread locker..

10 pcs. packs

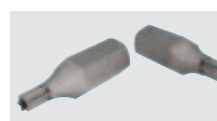
Article	Description
VF VAM4X10BX-X	M4x10 screw, with Torx T20 fitting, AISI 304
VF VAM4X15BX-X	M4x15 screw, with Torx T20 fitting, AISI 304
VF VAM4X20BX-X	M4x20 screw, with Torx T20 fitting, AISI 304
VF VAM4X25BX-X	M4x25 screw, with Torx T20 fitting, AISI 304
VF VAM5X10BX-X	M5x10 screw, with Torx T25 fitting, AISI 304
VF VAM5X15BX-X	M5x15 screw, with Torx T25 fitting, AISI 304
VF VAM5X20BX-X	M5x20 screw, with Torx T25 fitting, AISI 304
VF VAM5X25BX-X	M5x25 screw, with Torx T25 fitting, AISI 304



**Safety screws One-Way**  
Pan head screws with OneWay fitting in stainless steel. This screw type cannot be removed or tampered with using common tools. Ideal for fixing safety device actuators in accordance with EN ISO 14119.

10 pcs. packs

Article	Description
VF VAM4X10BX-X	M4x10 screw, with OneWay fitting, AISI 304
VF VAM4X15BX-X	M4x15 screw, with OneWay fitting, AISI 304
VF VAM4X20BX-X	M4x20 screw, with OneWay fitting, AISI 304
VF VAM4X25BX-X	M4x25 screw, with OneWay fitting, AISI 304
VF VAM5X10BX-X	M5x10 screw, with OneWay fitting, AISI 304
VF VAM5X15BX-X	M5x15 screw, with OneWay fitting, AISI 304
VF VAM5X20BX-X	M5x20 screw, with OneWay fitting, AISI 304
VF VAM5X25BX-X	M5x25 screw, with OneWay fitting, AISI 304



**Torx safety screws bits**  
Safety screws bits, ¼" drive.

Article	Description
VF VAIT1T20	Bits for tamper-resistant Torx T20, M4 screw
VF VAIT1T25	Bits for tamper-resistant Torx T25, M5 screw

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



#### Wiretrap cable gland

The new design and technology allows this type of cable gland to offer a higher resistance to cable tractions. Every cable gland can also accept a wider diameter cable range. Protection degree IP67.

10 pcs pack.

	Article	Description	Gasket sharpe
Metric threading	VF PAM25C7N	M25x1.5 for one cable from Ø 10 ... 17 mm	○
	VF PAM20C6N	M20x1.5 for one cable from Ø 6 ... 12 mm	○
	VF PAM20C5N	M20x1.5 for one cable from Ø 5 ... 10 mm	○
	VF PAM20C3N	M20x1.5 for one cable from Ø 3 ... 7 mm	○
	VF PAM16C5N	M16x1.5 for one cable from Ø 5 ... 10 mm	○
	VF PAM16C4N	M16x1.5 for one cable from Ø 4 ... 8 mm	○
	VF PAM16C3N	M16x1.5 for one cable from Ø 3 ... 7 mm	○
	VF PAM20CBN	M20x1.5 for 2 cables from Ø 3 ... 5 mm	⊗
	VF PAM20CDN	M20x1.5 for 3 cables from Ø 1 ... 4 mm	⊗
	VF PAM20CEN	M20x1.5 for 3 cables from Ø 3 ... 5 mm	⊗
VF PAM20CFN	M20x1.5 for 4 cables from Ø 1 ... 4 mm	⊗	
PG threading	VF PAP13C6N	PG 13.5 for one cable from Ø 6 ... 12 mm	○
	VF PAP13C5N	PG 13.5 for one cable from Ø 5 ... 10 mm	○
	VF PAP13C3N	PG 13.5 for one cable from Ø 3 ... 7 mm	○
	VF PAP11C5N	PG 11 for one cable from Ø 5 ... 10 mm	○
	VF PAP11C4N	PG 11 for one cable from Ø 4 ... 8 mm	○
VF PAP11C3N	PG 11 for one cable from Ø 3 ... 7 mm	○	



#### Chock plug for cable

Chock plug for multipolar cable, threaded M20x1.5. Protection degree IP54.

100 pcs pack.

Article	Description
VF PFM20C8N	Chock plug for cable from Ø 8 to Ø 12 mm, threaded M20x1.5
VF PFM20C4N	Chock plug for cable from Ø 4 to Ø 8 mm, threaded M20x1.5



#### Thread adapters

With these adapters it is possible to offer to the customers the same product with different threaded cable entries, while only having to stock a single product and many kinds of adapters.

100 pcs pack.

Article	Description
VF ADPG13-PG11	Adapter from PG 13.5 to PG 11
VF ADPG13-M20	Adapter from PG 13.5 to M20x1.5
VF ADPG13-1/2NPT	Adapter from PG 13.5 to 1/2 NPT
VF ADPG11-1/2NPT	Adapter from PG 11 to 1/2 NPT
VF ADPG11-PG13	Adapter from PG 11 to PG 13.5
VF ADM20-1/2NPT	Adapter from M20x1.5 to 1/2 NPT



#### Protection plugs

Protection plug for threaded conduit entries. Protection degree IP67.

100 pcs pack.

Article	Description
VF PTG13,5	Protection plug PG13.5
VF PTM20	Protection plug M20x1.5
VF PTG11	Protection plug PG11
VF PTM16	Protection plug M16x1.5



#### Light indicators

A light indicator is used in order to visualize a change of state of the electric contacts inside the switch. It can be installed only in the series FL, FX, FZ, FS, FW, FG by screwing it on one of the M20x1.5 conduit entries not used for electric cables. Protection degree IP67.

5 pcs pack.

Article	Description
VF ILI024GM	Light indicator yellow, 24 Vac/dc
VF ILI024RM	Light indicator red, 24 Vac/dc
VF ILI024VM	Light indicator green, 24 Vac/dc
VF ILX000GM	Light indicator yellow, without lamp
VF ILX000RM	Light indicator red, without lamp
VF ILX000VM	Light indicator green, without lamp

Any information or application example, included the connection diagrams, described in this document are to be intended as purely descriptive. The choice and application of the products in conformity with the standards, in order to avoid damage to persons or goods, is the user's responsibility. The drawings and data contained in this catalogue are not binding and we reserve the right, in order to improve the quality of our products, to modify them at any time without prior notice. They are also our property and may be reproduced only with our written permission.

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General Catalogue  
Detection



General Catalogue  
HMI



General Catalogue  
Safety



General Catalogue  
LIFT



DVD



Web site  
[www.pizzato.com](http://www.pizzato.com)



**pizzato elettrica**

Passion for Quality

**Pizzato Elettrica s.r.l.** Via Torino, 1 - 36063 Marostica (VI) Italy  
Phone +39.0424.470.930 - Fax +39.0424.470.955  
E-mail: [info@pizzato.com](mailto:info@pizzato.com) - Web site: [www.pizzato.com](http://www.pizzato.com)

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