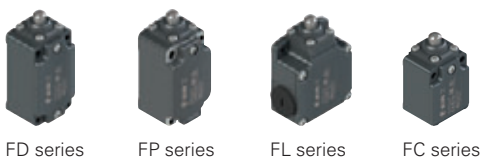


Product Overview



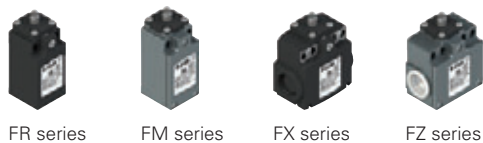
2 Position switches

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 and triple 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 selectors E2 IL series



► 19

4 Safety devices

4A Safety switches with separate actuator



With separate actuator

► 25



With separate actuator

► 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 slot-hole lever

► 27

4 Safety modules



For emergency stop and gate monitoring
CS AR series

► 32



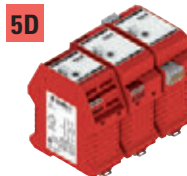
For emergency stop, gate monitoring, safety mats and safety edges with 4 wires technology CS AR series

► 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

► 8



High temperature

► 8



For electric boards

► 8

2D Modular prewired switches



NA-NB series

► 9



NF series

► 9



MK series

► 11



3H Monolith illuminated selectors E6 IL series



► 19

3I Protected contact blocks FR, FK, FX series



► 19

3L USB and RJ45 sockets



► 20

3M Potentiometers E6 DM series



► 20

3N Single Contact blocks CP-CF series



► 21

3O Double contact blocks CP-CF series



► 22

3P LED holder LP-LF series



► 22

3Q ES series 3R EA series Enclosures



► 23/24

3S Accessories



► 24



4E Switches with separate actuator with lock



With solenoid FS series

► 28



With manual mechanical delay

► 28



With lock

► 28



With solenoid FG series

► 29



With solenoid and RFID technology NG Series

► 29

4F Safety Handle

Serie VF AP-P
Serie AP
Serie VF AP-S

► 30

4G Rope switches



With or without reset for emergency stop or for simple stop

► 31

3Q 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 PG 13.5 (M20 available)

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

FL series

Housing made of metal

Three conduit entries PG 13.5 (M20 available)

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

FC series

Housing made of metal

One conduit entry PG 11 (M16 available)

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

FP series

Housing made of polymer glass-reinforced

One conduit entry PG 13.5 (M20 available)

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

Accessories

See on page 37.

For the whole accessories list please see the general catalogue.





Round rod						With two stable positions				
										
FD 521	FD 525	FD 531 	FD 532	FD 535	FD 536	FD 542 	FD 551 	FD 552 	FD 553-E11V9 	FD 576
		FD 631 	FD 632	FD 635	FD 636		FD 651 	FD 652 	FD 653-E11V9 	FD 676
		FD 931 	FD 932	FD 935	FD 936		FD 951 	FD 952 	FD 953-E11V9 	
FD 2021	FD 2025	FD 2031 	FD 2032	FD 2035	FD 2036		FD 2051 	FD 2052 	FD 2053-E11V9 	
FD 221	FD 225	FD 231	FD 232	FD 235	FD 236		FD 251	FD 252	FD 253-E11	FD 276

Round rod						With two stable positions				
										
FL 521	FL 525	FL 531 	FL 532	FL 535	FL 536	FL 542 	FL 551 	FL 552 	FL 553-E11V9 	FL 576
		FL 631 	FL 632	FL 635	FL 636		FL 651 	FL 652 	FL 653-E11V9 	FL 676
		FL 931 	FL 932	FL 935	FL 936		FL 951 	FL 952 	FL 953-E11V9 	
FL 2021	FL 2025	FL 2031 	FL 2032	FL 2035	FL 2036		FL 2051 	FL 2052 	FL 2053-E11V9 	
FL 221	FL 225	FL 231	FL 232	FL 235	FL 236		FL 251	FL 252	FL 253-E11	FL 276

Round rod									
									
FC 321	FC 325	FC 331	FC 332	FC 335	FC 336	FC 351	FC 352	FC 353-E11	FC 376
FC 3321	FC 3325	FC 3331 	FC 3332	FC 3335	FC 3336	FC 3351 	FC 3352 	FC 3353-E11V9 	FC 3376
FC 3421	FC 3425	FC 3431 	FC 3432	FC 3435	FC 3436	FC 3451 	FC 3452 	FC 3453-E11V9 	FC 3476

Round rod						With two stable positions				
										
FP 521	FP 525	FP 531 	FP 532	FP 535	FP 536	FP 542 	FP 551 	FP 552 	FP 553-E11V9 	FP 576
		FP 631 	FP 632	FP 635	FP 636		FP 651 	FP 652 	FP 653-E11V9 	FP 676
		FP 931 	FP 932	FP 935	FP 936		FP 951 	FP 952 	FP 953-E11V9 	
FP 2021	FP 2025	FP 2031 	FP 2032	FP 2035	FP 2036		FP 2051 	FP 2052 	FP 2053-E11V9 	
FP 221	FP 225	FP 231	FP 232	FP 235	FP 236		FP 251	FP 252	FP 253-E11	FP 276



FR series

Housing made of polymer glass-reinforced

One conduit entry PG 13.5 (M20 available)

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	FR 502	FR 505	FR 507	FR 508	FR 513	FR 515	FR 515-1
FR 601	FR 602	FR 605	FR 607	FR 608	FR 613	FR 615	FR 615-1
FR 901	FR 902	FR 905	FR 907	FR 908	FR 913	FR 915	FR 915-1
FR 2001	FR 2002	FR 2005	FR 2007	FR 2008	FR 2013	FR 2015	FR 2015-1
FR 201	FR 202	FR 205	FR 207	FR 208	FR 213	FR 215	FR 215-1

FX series

Housing made of polymer glass-reinforced

Two conduit entries PG 13.5 (M20 available)

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	FX 502	FX 505	FX 507	FX 508	FX 513	FX 515	FX 515-1
FX 601	FX 602	FX 605	FX 607	FX 608	FX 613	FX 615	FX 615-1
FX 901	FX 902	FX 905	FX 907	FX 908	FX 913	FX 915	FX 915-1
FX 2001	FX 2002	FX 2005	FX 2007	FX 2008	FX 2013	FX 2015	FX 2015-1
FX 201	FX 202	FX 205	FX 207	FX 208	FX 213	FX 215	FX 215-1

FM series

Housing made of metal

One conduit entry PG 13.5 (M20 available)

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

FZ series

Housing made of metal

Two conduit entries PG 13.5 (M20 available)

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

Accessories

See on page 37.

For the whole accessories
list please see the general
catalogue.





Round rod

										
FR 520	FR 521	FR 525	FR 530 	FR 550	FR 551 	FR 553-E0V9 	FR 554 	FR 555	FR 569	FR 576
			FR 630 	FR 650	FR 651 	FR 653-E0V9 	FR 654 	FR 655	FR 669	FR 676
			FR 930 	FR 950	FR 951 	FR 953-E0V9 	FR 954 	FR 955	FR 969	
FR 2020	FR 2021	FR 2025	FR 2030 	FR 2050	FR 2051 	FR 2053-E0V9 	FR 2054 	FR 2055	FR 2069	
FR 220	FR 221	FR 225	FR 230	FR 250	FR 251	FR 253-E0	FR 254	FR 255	FR 269	FR 276

Round rod

										
FX 520	FX 521	FX 525	FX 530 	FX 550	FX 551 	FX 553-E0V9 	FX 554 	FX 555	FX 569	FX 576
			FX 630 	FX 650	FX 651 	FX 653-E0V9 	FX 654 	FX 655	FX 669	FX 676
			FX 930 	FX 950	FX 951 	FX 953-E0V9 	FX 954 	FX 955	FX 969	
FX 2020	FX 2021	FX 2025	FX 2030 	FX 2050	FX 2051 	FX 2053-E0V9 	FX 2054 	FX 2055	FX 2069	
FX 220	FX 221	FX 225	FX 230	FX 250	FX 251	FX 253-E0	FX 254	FX 255	FX 269	FX 276

Round rod

										
FM 520	FM 521	FM 525	FM 531 	FM 550	FM 551 	FM 553-E0V9 	FM 554 	FM 555	FM 569	FM 576
			FM 631 	FM 650	FM 651 	FM 653-E0V9 	FM 654 	FM 655	FM 669	FM 676
			FM 931 	FM 950	FM 951 	FM 953-E0V9 	FM 954 	FM 955	FM 969	
FM 2020	FM 2021	FM 2025	FM 2031 	FM 2050	FM 2051 	FM 2053-E0V9 	FM 2054 	FM 2055	FM 2069	
FM 220	FM 221	FM 225	FM 231	FM 250	FM 251	FM 253-E0	FM 254	FM 255	FM 269	FM 276

Round rod

										
FZ 520	FZ 521	FZ 525	FZ 531 	FZ 550	FZ 551 	FZ 553-E0V9 	FZ 554 	FZ 555	FZ 569	FZ 576
			FZ 631 	FZ 650	FZ 651 	FZ 653-E0V9 	FZ 654 	FZ 655	FZ 669	FZ 676
			FZ 931 	FZ 950	FZ 951 	FZ 953-E0V9 	FZ 954 	FZ 955	FZ 969	
FZ 2020	FZ 2021	FZ 2025	FZ 2031 	FZ 2050	FZ 2051 	FZ 2053-E0V9 	FZ 2054 	FZ 2055	FZ 2069	
FZ 220	FZ 221	FZ 225	FZ 231	FZ 250	FZ 251	FZ 253-E0	FZ 254	FZ 255	FZ 269	FZ 276



FD, FL, FC, FP series

Position switches without actuator

Housing made of polymer glass-reinforced or metal

One or three conduit entries PG 13.5

(M20 available)

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

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

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 or metal

One or two conduit entries PG 13.5

(M20 available)

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



With reset

FR 538	FX 538	FM 538	FZ 538	
FR 638	FX 638	FM 638	FZ 638	FR 638-W3
FR 938	FX 938	FM 938	FZ 938	FR 938-W3
FR 2038	FX 2038	FM 2038	FZ 2038	FR 2038-W3
FR 238	FX 238	FM 238	FZ 238	

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

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 PG 13.5 (M20 available)
 Protection degree IP67
 Marks:
 Ambient temperature: -25°C ... +80°C

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

In order to buy a FX, FM or FZ: series product:

substitute on above mentioned codes FR with FX, FM or FZ: Example: **FR 601-W3** → **FM 601-W3**

Pizzato Elettrica has developed a reset device code W3 to make perfectly simultaneous the actuator and the contact block tripping. The new 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:

- The reset device integrate in almost all standard actuation head
- 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.



FR 601-W3 FR 602-W3 FR 605-W3 FR 607-W3 FR 615-W3 FR 630-W3 FR 651-W3 FR 654-W3
 FR 901-W3 FR 902-W3 FR 905-W3 FR 907-W3 FR 915-W3 FR 930-W3 FR 951-W3 FR 954-W3
 FR 2001-W3 FR 2002-W3 FR 2005-W3 FR 2007-W3 FR 2015-W3 FR 2030-W3 FR 2051-W3 FR 2054-W3

Position switches without actuator, see page 7

Switches for special applications



FR series with electronic contact blocks

Housing made of polymer glass-reinforced
 One conduit entry PG 13.5 (M20 available)
 Protection degree IP67
 Marks:
 Ambient temperature: -25°C ... +80°C

Electronic PNP contacts (1NO-1NC)

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



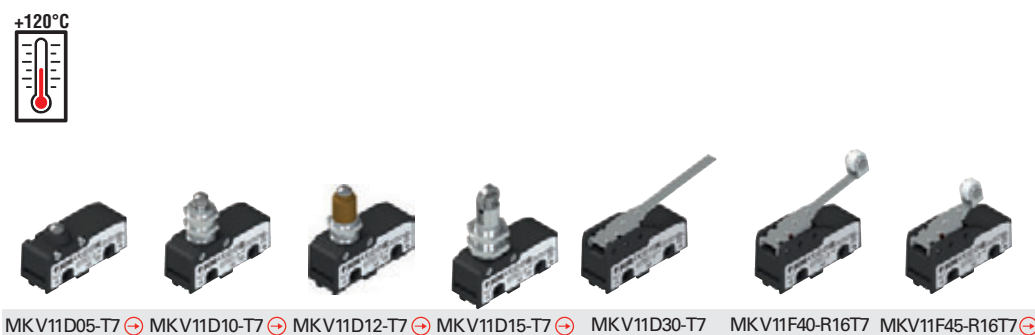
In order to buy a FX, FM or FZ: series product:

substitute on above mentioned codes FR with FX, FM or FZ: Example: **FR E101** → **FM E101**

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:

Slow action contacts 1NO+1NC



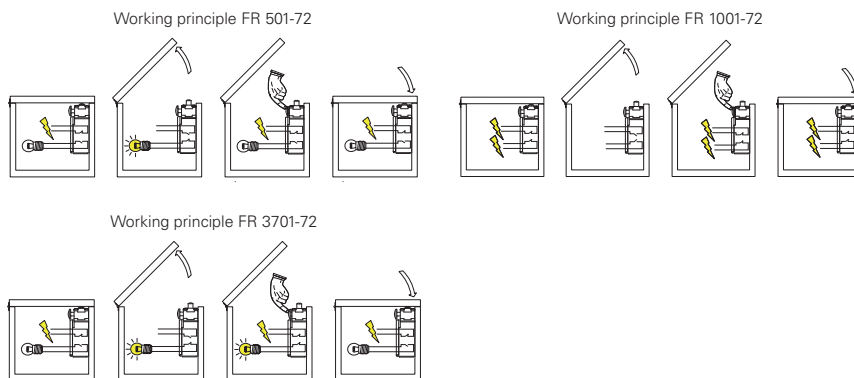
MKV11D05-T7 MKV11D10-T7 MKV11D12-T7 MKV11D15-T7 MKV11D30-T7 MKV11F40-R16T7 MKV11F45-R16T7

FR series for electric boards

Housing made of polymer glass-reinforced
 One conduit entry PG 13.5 (M20 available)
 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 501-72
 FR 1001-72
 FR 3701-72



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



Housing NB series (Distance fixing holes 25 mm)

M12 connector output from right

M12 connector output from bottom

AMP superseal 1.5 connector



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

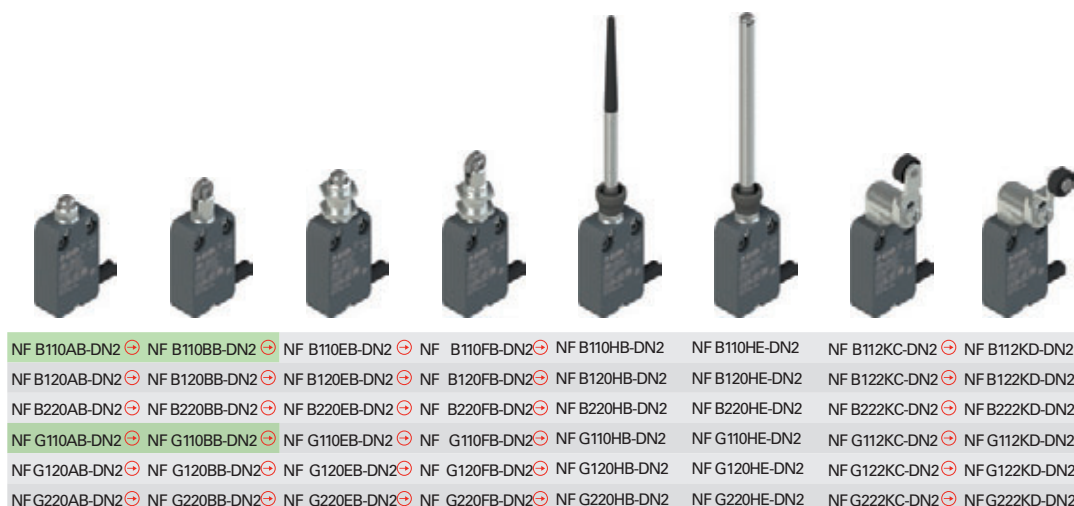


In order to buy a product with AMP connector output substitute on above mentioned codes DN2 with SAK. Example: NA B110AA-DN2 → NA B110AA-SAK

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



M12 connector output from right

M12 connector output from bottom

AMP superseal 1.5 connector



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



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

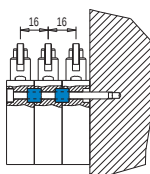


In order to buy a product with AMP connector output substitute on above mentioned codes DN2 with SAK. Example: NF B110AA-DN2 → NF B110AA-SAK

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
VF DT1F	Spacers for NA-NF series
VF D16B	Spacers for NB series

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

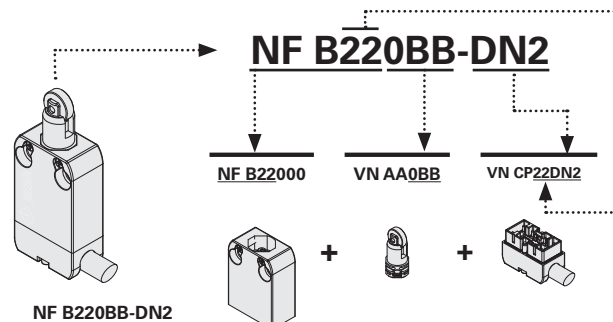
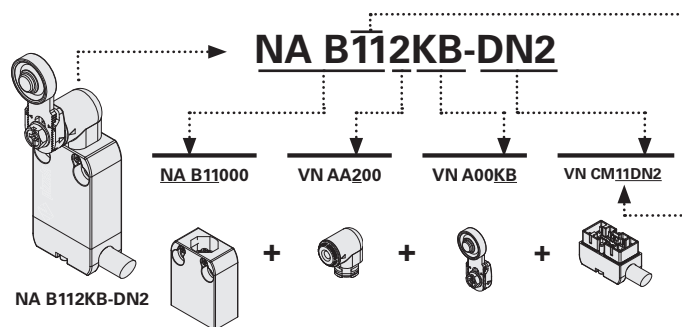
Accessories

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





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)



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

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

Connector with cable

metal connectors for NA and NB housing

polymer connectors for NF housing



Cable length(m)

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

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

Actuators

Unidirectional roller lever



VN AA0AA ⊕	VN AA0AB ⊕	VN AA0AC ⊕	VN AA0AE ⊕	VN AA0BB ⊕	VN AA0BE ⊕	VN AA0CB ⊕	VN AA0CH ⊕	VN AA0CP ⊕
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Plunger with Ø 6 mm sphere



VN AA0CV ⊕	VN AA0EB ⊕	VN AA0EE ⊕	VN AA0FB ⊕	VN AA0GB ⊕	VN AA0HB ⊕	VN AA0HE ⊕	VN AA0HH ⊕	VN AA0BB-W5 ⊕
------------	------------	------------	------------	------------	------------	------------	------------	---------------

Revolving levers

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

VN A00KA ⊕	VN A00KB ⊕	VN A00KC ⊕	VN A00KD ⊕	VN A00KE ⊕	VN A00KF ⊕	VN A00KG ⊕	VN A00KH ⊕	VN A00KP ⊕
------------	------------	------------	------------	------------	------------	------------	------------	------------

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 ⊕



VN A00LB ⊕	VN A00LE ⊕	VN A00LH ⊕	VN A00LL ⊕	VN AA200 ⊕	VN AA000-W5 ⊕	Items with code on the green background are available in stock
------------	------------	------------	------------	------------	---------------	---



MK series

Housing made of polymer glass-reinforced
Positive opening $\ominus$ 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 $\ominus$

MK V11D06 $\ominus$

MK V11D08 $\ominus$

MK V12D01

MK V12D02

MK V12D03

MK V12D04

MK V12D05 $\ominus$

MK V12D06 $\ominus$

MK V12D08 $\ominus$

Direct action

1NO+1NC, snap action



MK V11D09 $\ominus$

MK V11D10 $\ominus$

MK V11D12 $\ominus$

MK V11D13 $\ominus$

MK V11D15 $\ominus$

MK V11D17 $\ominus$

MK V11D18 $\ominus$

MK V12D09 $\ominus$

MK V12D10 $\ominus$

MK V12D12 $\ominus$

MK V12D13 $\ominus$

MK V12D15 $\ominus$

MK V12D17 $\ominus$

MK V12D18 $\ominus$

Direct action

1NO+1NC, snap action



MK V11D19 $\ominus$

MK V11D30

MK V11D31

MK V11D32

MK V11D35

MK V11D37

MK V11D40

MK V12D19 $\ominus$

MK V12D30

MK V12D31

MK V12D32

MK V12D35

MK V12D37

MK V12D40

Direct action

1NO+1NC, snap action



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



MK V11F30

MK V11F31 $\ominus$

MK V11F32

MK V11F40

MK V11F42 $\ominus$

MK V11F45 $\ominus$

MK V11F46 $\ominus$

MK V12F30

MK V12F31 $\ominus$

MK V12F32

MK V12F40

MK V12F42 $\ominus$

MK V12F45 $\ominus$

MK V12F46 $\ominus$

Back direct action

1NO+1NC, snap action



MK V11F47 $\ominus$

MK V11F49 $\ominus$

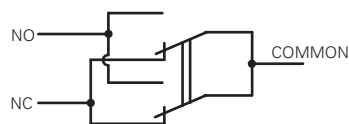
MK V11F59 $\ominus$

MK V12F47 $\ominus$

MK V12F49 $\ominus$

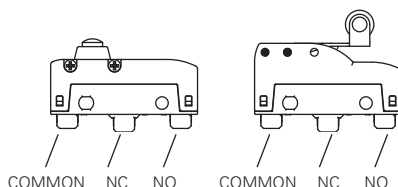
MK V12F59 $\ominus$

Wire diagram

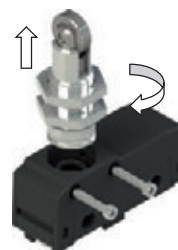


Contacts with single interruption and double contacts

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 $\ominus$ versions
Faston terminals
Marks:

Max protection degree IP40

Max protection degree IP65

Direct action

1NO+1NC, snap action

10 pcs pack



MK H11D01

MK H11D02

MK H11D03

MK H11D04

MK H11D05 $\ominus$

MK H11D06 $\ominus$

MK H11D08 $\ominus$

MK H12D01

MK H12D02

MK H12D03

MK H12D04

MK H12D05 $\ominus$

MK H12D06 $\ominus$

MK H12D08 $\ominus$

Direct action

1NO+1NC, snap action



MK H11D09 $\ominus$

MK H11D10 $\ominus$

MK H11D12 $\ominus$

MK H11D13 $\ominus$

MK H11D15 $\ominus$

MK H11D17 $\ominus$

MK H11D18 $\ominus$

MK H12D09 $\ominus$

MK H12D10 $\ominus$

MK H12D12 $\ominus$

MK H12D13 $\ominus$

MK H12D15 $\ominus$

MK H12D17 $\ominus$

MK H12D18 $\ominus$

Direct action

1NO+1NC, snap action



MK H11D19 $\ominus$

MK H11D30

MK H11D31

MK H11D32

MK H11D35

MK H11D37

MK H11D40

MK H12D19 $\ominus$

MK H12D30

MK H12D31

MK H12D32

MK H12D35

MK H12D37

MK H12D40

Direct action

1NO+1NC, snap action



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



MK H11F30

MK H11F31 $\ominus$

MK H11F32

MK H11F40

MK H11F42 $\ominus$

MK H11F45 $\ominus$

MK H11F46 $\ominus$

MK H12F30

MK H12F31 $\ominus$

MK H12F32

MK H12F40

MK H12F42 $\ominus$

MK H12F45 $\ominus$

MK H12F46 $\ominus$

Back direct action

1NO+1NC, snap action



MK H11F47 $\ominus$

MK H11F49 $\ominus$

MK H11F59 $\ominus$

MK H12F47 $\ominus$

MK H12F49 $\ominus$

MK H12F59 $\ominus$

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.



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 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

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.



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



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 C01	Protection terminal

Article	Description
VF C02	Protection terminal

Article	Description
VF C03	Protection terminal

PA, PX series

Housing made of polymer glass-reinforced
 One conduit entry PG 13.5 (M20 available)
 Two lateral knock out conduit entries
 Protection degree IP53 or IP65
 Marks: contact block)

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



With M25 hole for VF KIT31

PX 10110

PA 20100

PX 10110-B

PX 10210

PA 20200

PX 10210-B

PX 10310

PA 20300

PX 10310-B

Code structure

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

article
PX 10110-AM2

options

Foot switches
PX with pedal actuator protection
PA without pedal actuator protection

Protections color
1 yellow RAL 1023 (standard)
2 red RAL 3020
4 grey RAL 7040
5 black 9017 (on request)
6 blue RAL 5017 (on request)

Threaded conduit entry

PG 13.5 (standard)
M2 M20x1,5

Accessories (only PX series)

No accessories (standard)
A Supplied with polymer carrying rod (400 mm)
B With M25 hole for VF KIT31
C With M25 hole for VF KIT31 complete with stabilizing plate
D Supplied with polymer carrying rod (660 mm)

Protection degrees

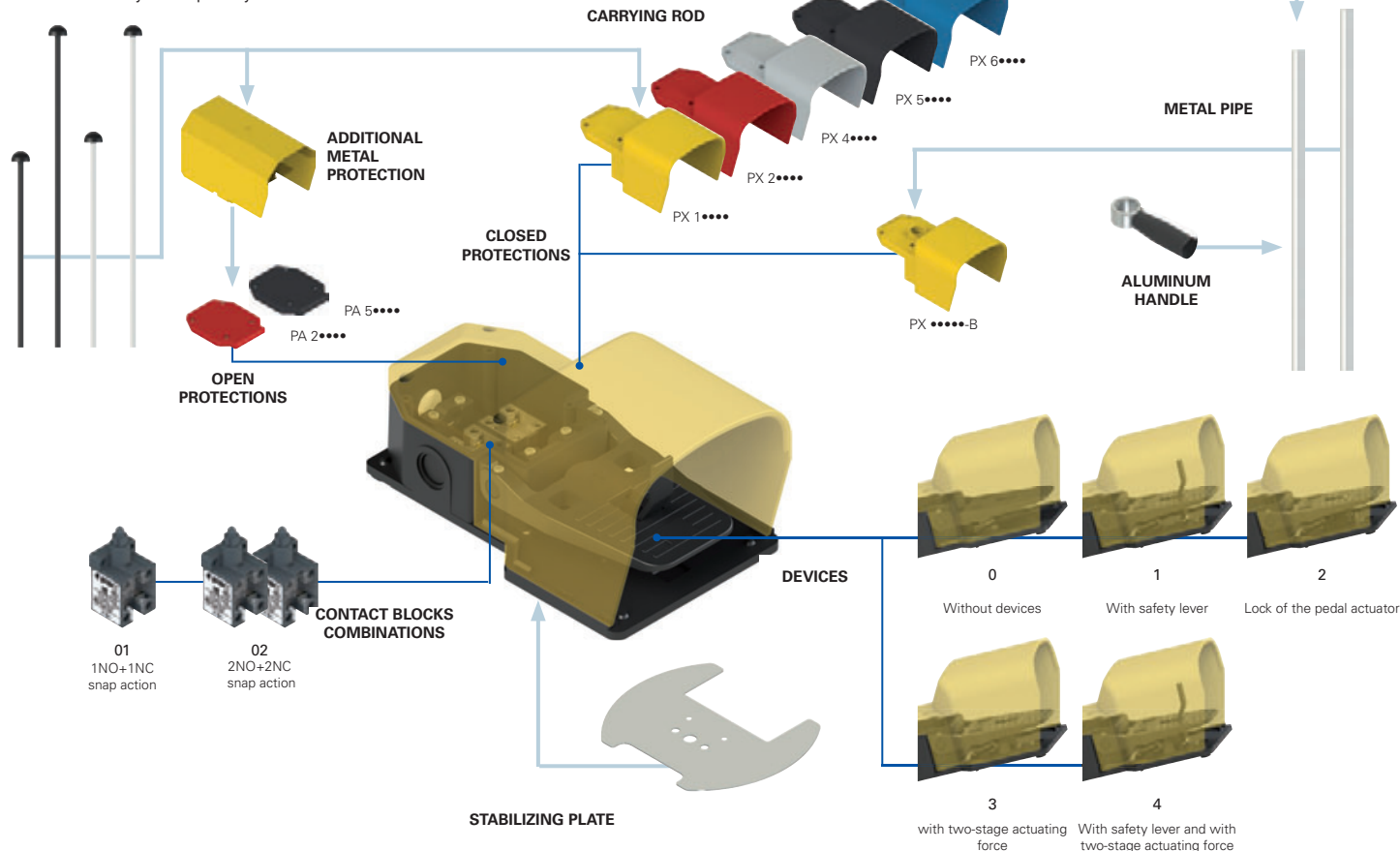
0 IP53
1 IP65

Contact blocks combinations
01 1NO+1NC, snap action
02 2x(1NO+1NC), snap action
03 1NO+1NC, slow action
04 2x(1NO+1NC), slow action
05 2x2NO, slow action
06 2x2NC, slow action
07 2NC, slow action
08 2NO, slow action
09 1NO+1NC, slow action overlapped contacts
20 2x(1NO+1NC), snap action shifted contacts

Devices
0 Without devices
1 With safety lever
2 Lock of the pedal actuator
3 Without safety lever and with two-stage actuating force (only for contact block combination 20)
4 With safety lever and with two-stage actuating force (only for contact block combination 20)

Selection diagram

● product option
 → accessory sold separately

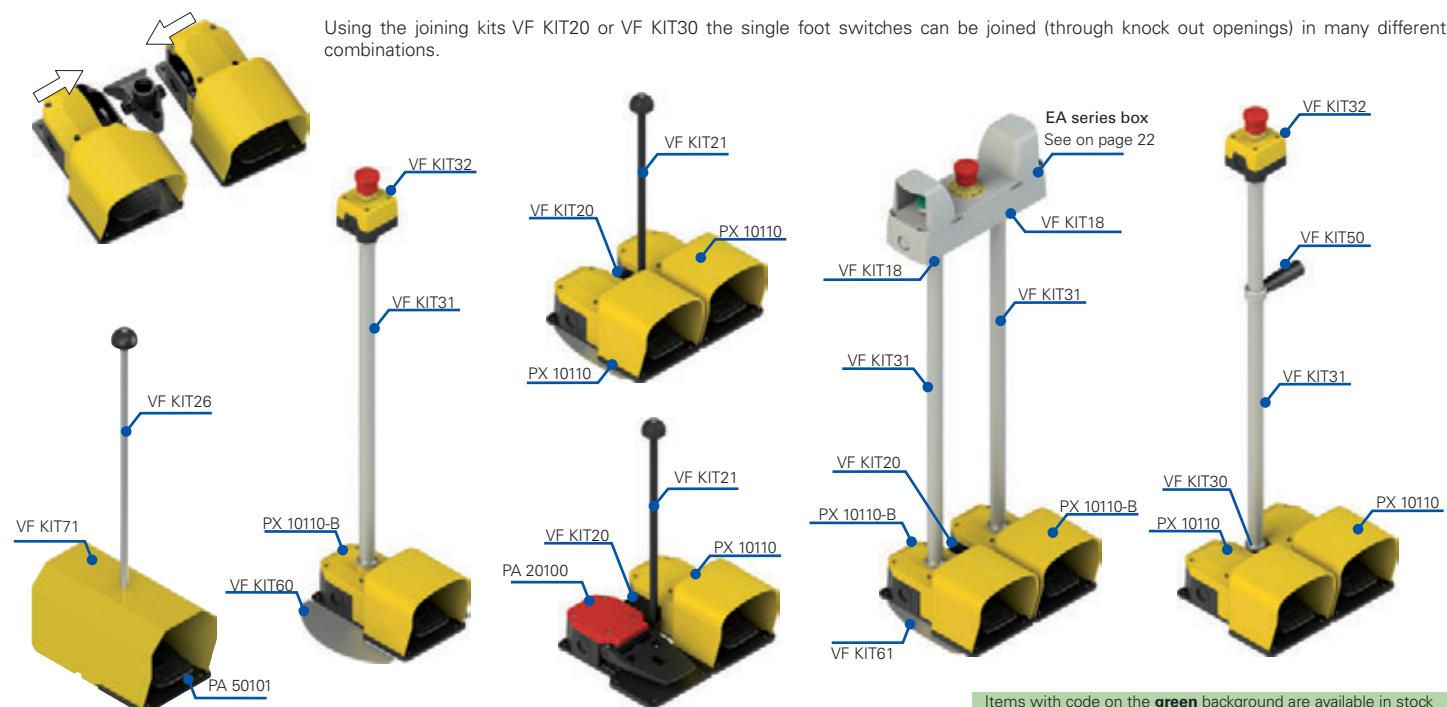




Auxiliary devices for modular multiple foot switches

VF KIT20	VF KIT30	VF KIT21 (L=400 mm) VF KIT22 (L=660 mm)	VF KIT25 (L=400 mm) VF KIT26 (L=660 mm)
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.
VF KIT31 (L=660 mm) VF KIT29 (L=740 mm)	VF KIT18	VF KIT32 (1NC) ⊖ VF KIT33 (1NC+1NO) ⊖ VF KIT34 (2NC) ⊖	VF KIT35 VF KIT50
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).
VF KIT60	VF KIT61	VF KIT71	VF KIT81
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.
			VF B501 ⊖ (1NC+1NO, snap action) VF B601 ⊖ (1NC+1NO, slow action)
			Additional contact block for foot switches (all foot switches are supplied with contact blocks).

Modular multiple foot switches PC series



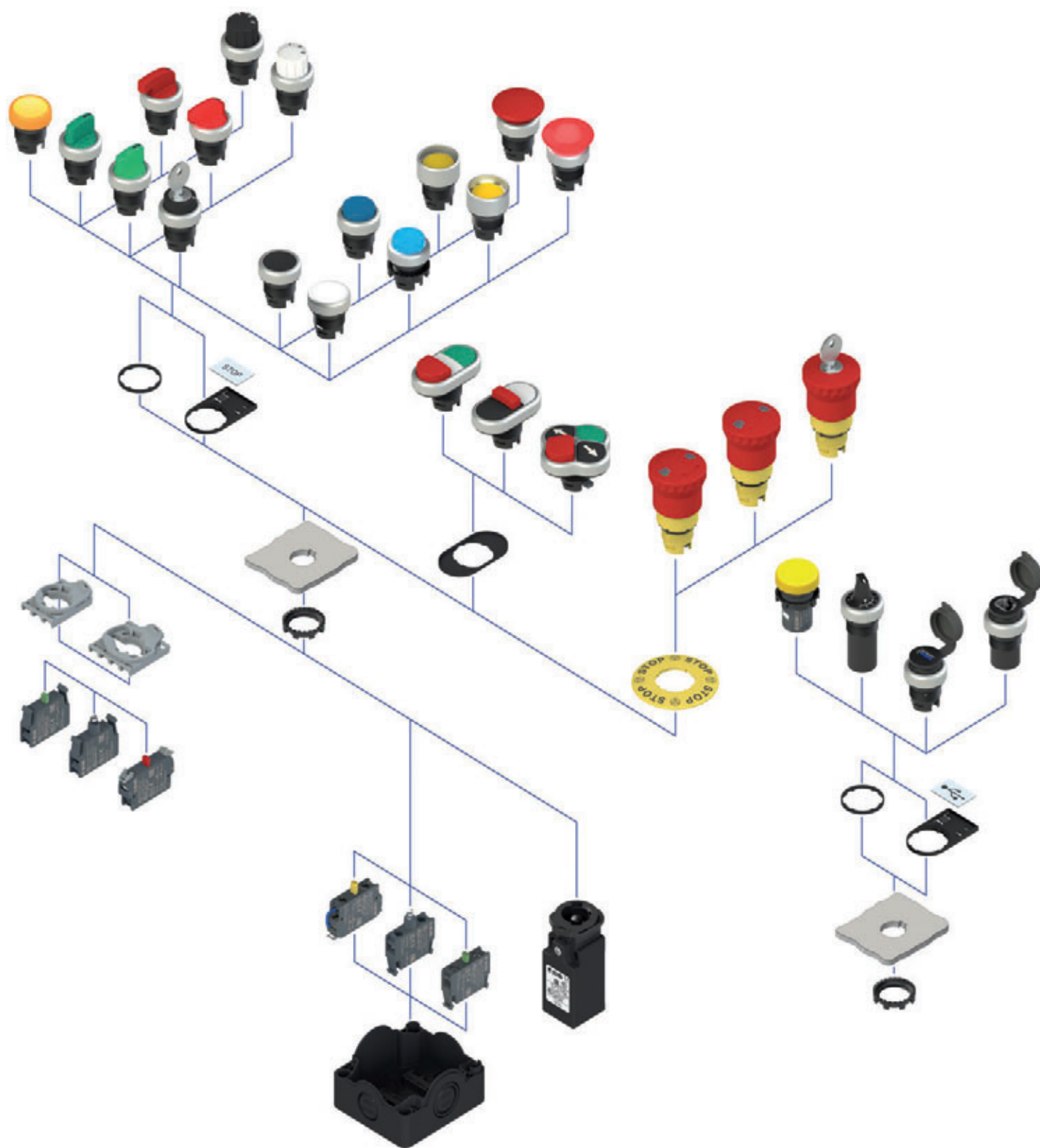
Items with code on the **green** background are available in stock

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 DIN 40050.



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	E2 1PU2S0290	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 green ring	E2 1PU2R329L1	E2 1PU2S329L1	-	E2 1PU2F349L1
green with red ring	E2 1PU2R429L2	E2 1PU2S429L2	E2 1PU2P429L2	E2 1PU2F449L2
black with white ring	E2 1PU2R129L1	E2 1PU2S129L1	-	E2 1PU2F149L1
white with black 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	E2 1PL2S0290	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 green ring	E2 1PL2R329L1	E2 1PL2S329L1	-	E2 1PL2F349L1
green with red ring	E2 1PL2R429L2	E2 1PL2S429L2	E2 1PL2P429L2	E2 1PL2F449L2
white with black ring	E2 1PL2R229L1	E2 1PL2S229L1	-	E2 1PL2F249L1
white with black 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 Double/triple 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	Actuator colour and marking (starting from the top and clockwise)		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		E2 1PTRS9AAA		"A" black pushbutton "B" black pushbutton "C" black pushbutton "D" black pushbutton	E2 1PQFA9QAAA
	"I" green pushbutton white indicator light "O" red pushbutton	E2 1PDRL9AAAD	E2 1PDSL9AAAD		E2 1PTRS9AAAZ		"START" green pushbutton "B" black pushbutton "STOP" red pushbutton "C" black pushbutton	E2 1PQFA9QAAB
	"START" green pushbutton white indicator light "STOP" red pushbutton	E2 1PDRL9AAAP	E2 1PDSL9AAAP		E2 1PTRS9AABD		"START" white pushbutton "B" black pushbutton "STOP" black pushbutton "C" black pushbutton	E2 1PQFA9QAAC
	white pushbutton white indicator light black pushbutton	E2 1PDRL90221	E2 1PDSL90221		E2 1PTRS9AABA		"A" black pushbutton "B" black pushbutton "STOP" black pushbutton "C" black pushbutton	E2 1PQFA9QAAD
	"I" white pushbutton white indicator light "O" black pushbutton	E2 1PDRL9AAAA	E2 1PDSL9AAAA		E2 1PTRS9AABE		"A" black pushbutton "B" black pushbutton "STOP" black pushbutton "C" black pushbutton	E2 1PQFA9QAAD
	"START" white pushbutton white indicator light "STOP" black pushbutton	E2 1PDRL9AAAN	E2 1PDSL9AAAN		E2 1PTRS9AABF		"A" black pushbutton "B" black pushbutton "STOP" black pushbutton "C" black pushbutton	E2 1PQFA9QAAD
	"A" black pushbutton white indicator light "B" black pushbutton	E2 1PDRL9AAAB	E2 1PDSL9AAAB		E2 1PTRS9AABB		"A" black pushbutton "B" black pushbutton "STOP" black pushbutton "C" black pushbutton	E2 1PQFA9QAAD

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

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

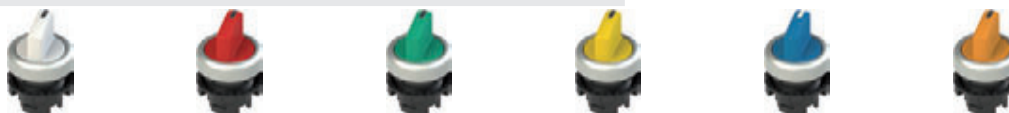
For ordering a knob selector substitute in the article codes 1 with 4. Example: E2 1SE12AVA39AB → E2 1SE42AVA39AB

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

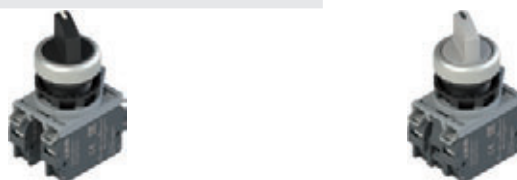
For ordering a knob selector substitute in the article codes 1 with 4. Example: E2 1SL12AVD39AB → E2 1SL42AVD39AB

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
IP20 on the terminals
Ambient temperature -25°C ... +80°C



Actuator colour and marking	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

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

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 4 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 TF32A5120	VE TF32G5100	VE TF32G5103	VE TF32G5110
Ø 90 mm	VE TF32D5700	VE TF32D5101	VE TF32D5102	VE TF32D5109	VE TF32D5120			

Luminous disc



VE DL series

Luminous disc

Protection degree IP67
Ambient temperature -25°C ... +70°C
Operation current: 20 mA



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 X 4	Yellow luminous disc, Ø 60 mm, 24 Vac/dc, with marking: X 4

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

3G Indicator lights

IL series Indicator lights

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

					
white	red	green	yellow	blue	orange
E2 1ILA210	E2 1ILA310	E2 1ILA410	E2 1ILA510	E2 1ILA610	E2 1ILA810

3H Monolithic indicator lights



E6 IL series Monolithic indicator lights

Protection degree IP67
Ambient temperature -40°C ... +70°C
Operation voltage and current: 12 ... 30 Vac/dc; 5 ... 15 mA

					
white	red	green	yellow	blue	orange
E6 1IL1A2110	E6 1IL1A3110	E6 1IL1A4110	E6 1IL1A5110	E6 1IL1A6110	E6 1IL1A8110

3I Protected contact blocks



FR, FX, FK series Protected contact blocks

Housing made of polymer glass-reinforced or metal
Protection degree IP67
Marks:    



Contact blocks	One conduit entry M20	Contact blocks	Two conduit entries M20	Contact blocks	One conduit entry M16
Slow action contacts 1NO+1NC	FR 6E2-M2  0 1.5 3 5 3.1	Slow action contacts 1NO+1NC	FX 6E2-M2  0 1.5 3 5 3.1	Slow action contacts 1NO+1NC	FK 33E2-M1  0 1.5 3 5 2
Slow action contacts 2NC	FR 9E2-M2  0 2.9 4.4 5	Slow action contacts 2NC	FX 9E2-M2  0 2.9 4.4 5	Slow action contacts 2NC	FK 34E2-M1  0 1.5 3 5
Slow action contacts 1NO+2NC	FR 20E2-M2  0 1.5 3 5 2	Slow action contacts 1NO+2NC	FX 20E2-M2  0 1.5 3 5 2		



USB series
USB socket

Protection degree IP67
Ambient temperature -25°C ... +80°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	E2 1USB9CAK	/
outlet with cable in PVC (1.8 m long) and USB Type A male socket	/	E2 1USB9CN1.8
outlet with cable in PVC (3 m long) and USB Type A male connector	/	E2 1USB9CN3
outlet with cable in PVC (5 m long) and USB Type A male connector	/	E2 1USB9CN5

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	E2 1RJ459AAK	/
Output with cable in PVC (1 m long) and RJ45 male connector	/	E2 1RJ459AN1
Output with cable in PVC (2.5 m long) and RJ45 male connector	/	E2 1RJ459AN2.5

Potentiometers



E6 DM series
Potentiometers

Protection degree IP67
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 1DM001 K-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

Items with code on the green background are available in stock



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 0 1.1 2.1 5	E2 CP01G2S0 0 1.1 2.1 5
Slow action contacts 1NO		E2 CP10G2V1 0 2.5 5	E2 CP10G2S0 0 2.5 5
Slow action contacts 1NC late break		E2 CP01K2V1 0 2.5 3.5 5	E2 CP01K2S0 0 2.5 3.5 5
Slow action contacts 1NO early make		E2 CP10L2V1 0 1.5 5	E2 CP10L2S0 0 1.5 5

Contact blocks		Base fixing Screw connection
Slow action contacts 1NC		E2 CF01G2V1 0 1.1 2.1 5
Slow action contacts 1NO		E2 CF10G2V1 0 2.5 5
Slow action contacts 1NC late break		E2 CF01K2V1 0 2.5 3.5 5
Slow action 1 contacts NO early make		E2 CF10L2V1 0 1.5 5



CP/CF series

Single contact blocks

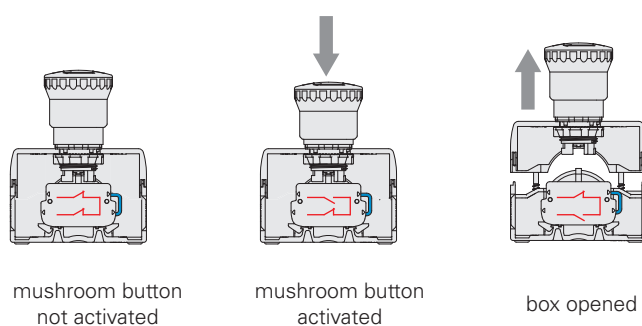
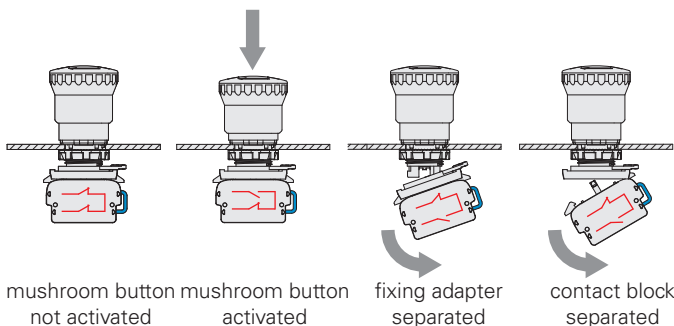
Protection degree IP20
Ambient temperature -40°C ... +80°C
Positive opening NC contacts according to IEC 60947-5-1
Marks:

10 pcs pack



Contact blocks	Panel fixing Screw connection
Slow self-monitored action contacts 1NC	E2 CP01S2V1 2.3 0.8 0 1.1 2.1 5

Contact blocks	Base fixing (position 3) Screw connection
Slow self-monitored action contacts 1NC	E2 CF01S2V1 2.3 0.8 0 1.1 2.1 5



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
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
Slow action contacts 1NO+1NC		E2 CF11G2V1
Slow action contacts 2NO		E2 CF20G2V1
Slow action contacts 2NC		E2 CF02G2V1

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		
		Operation 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		
		Operation 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.

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

ES series

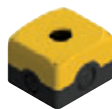
Boxes

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
0 I	Slow action contacts 1NO	ES AC31019
0 I	Slow action contacts 1NO	ES AC31044
0 I	Slow action contacts 2NO	ES AC31045
0 I	Slow action contacts 2NO	ES AC31046



Contacts	Push-Pull	Turn to release	Key release
Slow action contacts 1NC	ES AC31004	ES AC31003	ES AC31022
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 AC31021	ES AC31024

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



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	

Legend

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

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 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 30.



	1NO	Mushroom pushbutton		1NO+1NC	Mushroom pushbutton
	1NC	Emergency pushbutton Ø 40		1NC	Emergency pushbutton Ø 40
	1NO	Mushroom pushbutton		1NO+1NC	Mushroom pushbutton
EA AC37011			EA AC37010		

Accessories



Article	VE GF121A	VE GF720A	VE CH121A1	VE GF151A	E2 1BAC11	E2 1BAC21	VE PT32A00A0	VE TR4A970	VE TR3A770	VE GP12H1A
Description	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	Shaped ring for single device. 50 pcs packs



Article	VE GP12L1A	VE CA1A1	VE CA1D1	VE CA1C1	E2 1TA1A110	VE PR3A70	VE GP32A5A	VE GP32F5A	VE GP32B5A	VE AD3PF9A0
Description	Shaped ring for double and triple pushbuttons. 50 pcs packs	Protection hood for flush pushbutton. 10 pcs packs	Protection hood for double and triple projecting pushbutton. 10 pcs packs	Protection hood for double flush pushbutton. 10 pcs packs	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

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



Switches with separate actuator FD, FL, FC and FP series

Housing made of polymer glass-reinforced or metal

One or three conduit entries PG 13.5

(M20 available)

Protection degree IP67

Marks:

Slow action contacts 1NO+1NC

Slow action contacts 2NC

Slow action contacts 1NO+2NC



FD 693



FL 693



FC 3393



FP 693



FD 993



FL 993



FC 3493



FP 993



FD 2093



FL 2093



FP 2093



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 FR, FX, FK and FW series

Housing made of polymer glass-reinforced



One or two conduit entries PG 13.5 (M20 available)

Protection degree IP67

Marks:

Slow action contacts 1NO+1NC

Slow action contacts 2NC

Slow action contacts 1NO+2NC



3 conduit entries M20

FR 693



FX 693



FK 3393



FW 3392-M2



FR 993



FX 993



FK 3493



FW 3492-M2



FR 2093



FX 2093



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

with M8 connector



SR BD40AN2-B02F
8 mm

with M8 connector



SR BD40ALK-B02F
8 mm



SR AD40AN2-A01N
5 mm



SR AD40ALK-A01N
5 mm



For safety applications
connect exclusively with
the safety modules here
indicated
See technical details at
page 32.

CS AR-01•E02, CS AR-02•E02, CS AR-04•024, CS AR-05••••, CS AR-06••••, CS AR-08••••

CS AR-46•024, CS AR-94••••, CS AR-95••••, CS AT-0••••, CS AT-1••••, CS AT-3••••

CS FS-5•••••, CS MF•••••, CS MP•••••

RFID safety sensor



ST series safety sensors
with RFID technology

Housing made of polymer glass-
reinforced
2 m cable or M12 connector versions
Protection degree IP67 and IP69K
Signaling LED
Supply voltage: 24 Vdc
Marks:    

-	-	-	1	2
-	-	2	1	2
•	1	2	1	2

programmable	programming inputs I	safety inputs IS	auxiliary outputs O	safety outputs OS
--------------	----------------------	------------------	---------------------	-------------------



For safety applications
connect exclusively with
the safety modules here
indicated
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•••••

M12 connector on right



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



Switches with solenoid FG series

Housing made of metal
4 poles contact blocks
Actuator holding force 2500 N
Protection degree IP67
Signaling LED
Three conduit entries M20
Marks:

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

Locked actuator with
De-energized 24 Vac/dc
solenoid



FG 60AD1D0A
FG 60BD1D0A
FG 60CD1D0A

Locked actuator with
Energized 24 Vac/dc
solenoid



FG 60AD1E0A
FG 60BD1E0A
FG 60CD1E0A

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



FG 60AD5D0A
FG 60BD5D0A
FG 60CD5D0A

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



FG 60AD6D0A
FG 60BD6D0A
FG 60CD6D0A

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



FG 60AD7D0A
FG 60BD7D0A
FG 60CD7D0A

Separate actuators



VF KEYF20



VF KEYF21



VF KEYF22



VF KEYF28

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

NG Series RFID safety switches with block

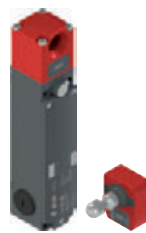
Housing made of metal, 3 conduit entries M20
Activation without contact
Actuator coded with a digital code
Actuator holding force 7500 N
Protection degree IP67 and IP69
Signaling LED
Marks:

Locked actuator with
De-energized 24 Vac/dc
solenoid



NG 2D1D411A-F31

Locked actuator with
Energized 24 Vac/dc
solenoid



NG 2D1E411A-F31

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



NG 2D5D411A-F31

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



NG 2D6D411A-F31

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



NG 2D7D411A-F31



1	1	2	1	1	2
electromagnet activation input I4	programming input I	safety inputs IS	guard locked signaling output O4	guard closed signaling output O3	safety outputs OS



For safety applications connect exclusively with the safety modules here indicated
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●●●●●



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



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

Housing made of polymer glass-reinforced or metal
One or three conduit entries
Protection degree IP67

Marks:

Contacts 1NO+1NC

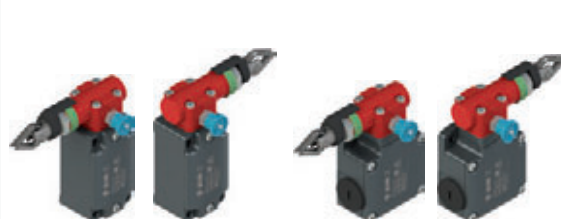
Contacts 2NC

Contacts 1NO+2NC

Longitudinal head



Transversal head



FD 1878	FL 1878	FC 3378	FP 1878	FD 1883	FD 1884	FL 1883	FL 1884
FD 978	FL 978	FC 3478	FP 978	FD 983	FD 984	FL 983	FL 984
FD 2078	FL 2078		FP 2078	FD 2083	FD 2084	FL 2083	FL 2084

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

Housing made of polymer glass-reinforced or metal
One or three conduit entries
Protection degree IP67

Marks:

Contacts 1NO+1NC

Contacts 2NC

Contacts 1NO+2NC

Longitudinal head



Transversal head



FD 1879	FL 1879	FC 3379	FP 1879	FD 1880	FL 1880
FD 979	FL 979	FC 3479	FP 979	FD 980	FL 980
FD 2079	FL 2079		FP 2079	FD 2080	FL 2080

Rope installation accessories

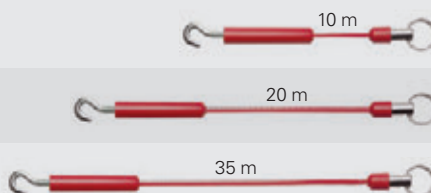


Article	VF AF-TR5	VF AF-TR8	VF AF-MR5	VF AF-TR2X	VF AF-ME78	VF AF-ME80	VF F05-100	VF AF-IF1GR03	VF AF-CA5	VF AF-CA10
Description	Adjustable stay bolt	Stay bolt	End clamp	Stainless steel adjustable stay bolt	Safety spring for longitudinal heads	Safety spring for transversal heads	Ø 5 mm rope 100 m roll	Rope function indicators. Text "STOP"	Pulley	Angular pulley

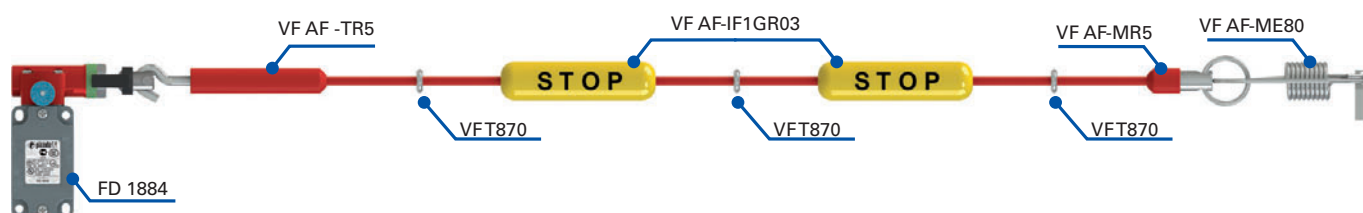
Rope installation accessories kits, FAST line



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



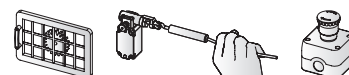
The CS series safety modules have been studied with clear aims of safety and reliability for the product. The design, development and production of these units have been faced with the passion for quality that distinguishes Pizzato Elettrica, adding further controls where possible. Maximum safety is the basic principle for this range of products.

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



5A

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.			1	2	3	4	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

Code structure

CS AR-01V024

Kind of connection		Supply voltage		
V	screw terminals	024	24 Vac/dc	±15%
M	connector with screw terminals	120	120 Vac	±15%
X	connector with spring terminals	230	230 Vac	±15%



V screw terminals



M connector with screw terminals



X connector with spring terminals



5B

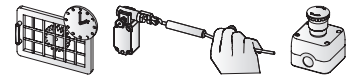
Safety modules for safety mats and safety edges with 4 wires technology



Product code	Supply voltages	Output contacts 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.							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.							V	M	X	
CS AT-0③V024	24 Vac/dc	2NO+1NC	2NO	e	3	4 (2)	■	■	■	■	■	-	■	■	■	45 x 114
CS AT-0③V120	120 Vac	2NO+1NC	2NO	e	3	4 (2)	■	■	■	■	■	-	■	■	■	45 x 114
CS AT-0③V230	230 Vac	2NO+1NC	2NO	e	3	4 (2)	■	■	■	■	■	-	■	■	■	45 x 114
CS AT-1③V024	24 Vac/dc	3NO	2NO	e	3	4 (2)	■	■	■	■	■	-	■	■	■	45 x 114
CS AT-1③V120	120 Vac	3NO	2NO	e	3	4 (2)	■	■	■	■	■	-	■	■	■	45 x 114
CS AT-1③V230	230 Vac	3NO	2NO	e	3	4 (2)	■	■	■	■	■	-	■	■	■	45 x 114
CS AT-3③V024	24 Vac/dc	2NO	1NO	e	3	4 (2)	■	■	■	-	■	-	■	■	■	45 x 114

5D

Safety timer module



Product code	Supply voltages	Functions	Output contacts delayed	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.							V	M	X	
CS FS-1③V024	24 Vac/dc	delay on	1NO+2NC	①	①	①	-	-	■	-	-	-	■	■	■	45 x 114
CS FS-1③V120	120 Vac	delay on	1NO+2NC	①	①	①	-	-	■	-	-	-	■	■	■	45 x 114
CS FS-1③V230	230 Vac	delay on	1NO+2NC	①	①	①	-	-	■	-	-	-	■	■	■	45 x 114
CS FS-2③VU24	24 Vdc	delay on	1NO+1NC+1CO	d	2	3	-	-	■	-	-	-	■	■	■	45 x 114
CS FS-2③V120	120 Vac	delay on	1NO+1NC+1CO	d	2	3	-	-	■	-	-	-	■	■	■	45 x 114
CS FS-3③VU24	24 Vdc	delay off	1NO+1NC+1CO	d	2	3	-	-	■	-	-	-	■	■	■	45 x 114
CS FS-3③V120	120 Vac	delay off	1NO+1NC+1CO	d	2	3	-	-	■	-	-	-	■	■	■	45 x 114
CS FS-5③VU24	24 Vdc	delay off	1NO+1NC+1CO	d	2	3	■	-	■	-	■	-	■	■	■	45 x 114
CS FS-5③V120	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

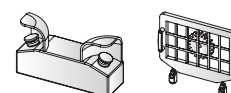


Items with code on the **green** background are available in stock



5

Safety modules for bimanual controls or synchronism check



5E

Product code	Supply voltages	Output contacts instantaneous	Safety category	Autom. or manual start	Monitored start	Type of inputs (7)				Kind of connection (4)			Housing dimensions (mm)
										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

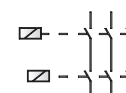
Safety module for standstill monitor



5F

Product code	Supply voltages	Output contacts 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.							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	①	-	■	■	-	-	■	■	■	22.5 x 91
CS ME-20VU24-TF⑤	24 Vdc	-	4NO+2NC	1NC	①	①	①	up to 3 s (fixed)	■	-	-	-	■	■	■	22.5 x 114
CS ME-30VU24-TF⑥	24 Vdc	-	4NO+2NC	1NC	①	①	①	up to 12 s (fixed)	■	-	-	-	■	■	■	45 x 114
CS ME-31VU24-TS12	24 Vdc	-	4NO+2NC	1NC	①	①	①	from 1 to 12 s (adjustable)	■	-	-	-	■	■	■	45 x 114

Code structure

CS AR-01V024

Kind of connection		Supply voltage		
V	screw terminals	024	24 Vac/dc	±15%
M	connector with screw terminals	120	120 Vac	±15%
X	connector with spring terminals	230	230 Vac	±15%



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





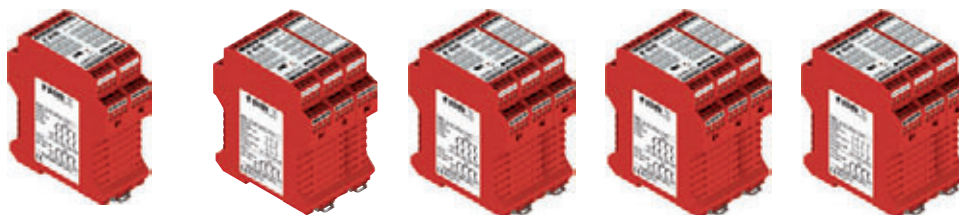
Pizzato Elettrica is pleased to present a new series of programmable safety modules, resulting from the decades-long experience of the company in the machine safety sector.

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.

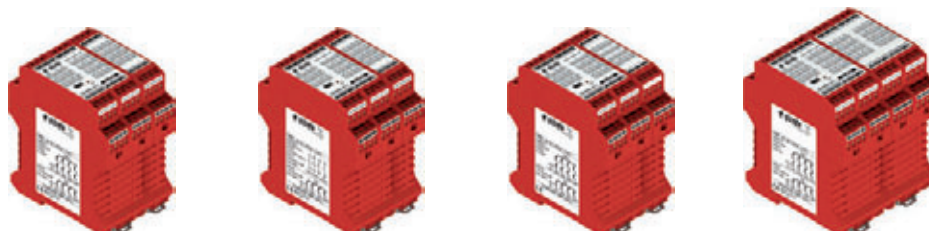
This software is licensed to the user who wishes to program the said modules, subject to prior registration in our web site: www.gemnis.com.



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 MP301M0	CS MP302M0	CS MP303M0	CS MP304M0
Dimensions (H x W x D)	111.5 x 45 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	111.5 x 67.5 x 99 mm
Safety inputs (Ix)	8	24	24	32	28
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	8	12	4	4
Semiconductor signaling output circuits (Ox)	12	4	4	4	4
Semiconductor safety output circuits (OSx)	4PNP	/	4PNP	4PNP	/
Relay safety output circuits	/	3NO	/	/	3NO+1NO



Article	CS MP305M0	CS MP306M0	CS MP307M0	CS MP401M0
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 90 x 99 mm
Safety inputs (Ix)	24	20	8	40
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	12	4	12
Semiconductor safety output circuits (OSx)	4PNP	/	4PNP	4PNP
Relay safety output circuits	/	3NO+1NO	/	/

The list could be updated. For the latest products, see www.gemnis.com



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.

TÜV approval pending.

Product code	Functions provided	Safe outputs	Signalling outputs
CS MF201M0-P1	Monitoring of 2 guards in AND and 1 emergency stop with automatic or manual monitored start.	3 NO	4 PNP
CS MF202M0-P2	Monitoring of 4 guards in AND, 1 bypass selector, 1 emergency stop, automatic or manual monitored start, general enabling signal.	4 PNP	4 PNP
CS MF202M0-P3	Monitoring of 6 guards in AND (2NC contacts), 1 emergency stop, automatic or manual monitored start.	4 PNP	4 PNP
CS MF202M0-P4	Monitoring of 6 guards in AND (1NC+1NO contacts), 1 emergency stop, automatic or manual monitored start.	4 PNP	4 PNP
CS MF202M0-P5	Monitoring of 4 guards with independent outputs, 1 bypass selector, 1 emergency stop, automatic or manual monitored start, general enabling signal.	4 PNP	4 PNP
CS MF202M0-P6	Monitoring of 2 guards and 1 bypass, 1 emergency stop, automatic or manual monitored start, general enabling signal. Three instantaneous outputs and one output timed with a 4-setting selector. Selectable On/Off delay.	4 PNP	4 PNP
CS MF202M0-P7	Monitoring of 4 guards in AND with switches provided with door lock, "D" principle, 1 emergency stop, monitored start. Two instantaneous outputs and two outputs timed by means of a 4-setting selector.	4 PNP	4 PNP
CS MF202M0-P8	Monitoring of 4 guards in AND with switches provided with door lock, "E" principle, 1 emergency stop, monitored start. Two instantaneous outputs and two outputs timed by means of a 4-setting selector.	4 PNP	4 PNP

Legend



Monitoring of gate



Monitoring of gate with lock



Emergency stop



Start function



Bypass selector



Time selector



Enabling input



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



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, Ø 10 to Ø 17 mm cable	○
	VF PAM20C6N	M20x1.5, Ø 6 to Ø 12 mm cable	○
	VF PAM20C5N	M20x1.5, Ø 5 to Ø 10 mm cable	○
	VF PAM20C3N	M20x1.5, Ø 3 to Ø 7 mm cable	○
	VF PAM16C5N	M16x1.5, Ø 5 to Ø 10 mm cable	○
	VF PAM16C4N	M16x1.5, Ø 4 to Ø 8 mm cable	○
	VF PAM16C3N	M16x1.5, Ø 3 to Ø 7 mm cable	○
	VF PAM20CBN	M20x1.5 for 2 cables, Ø 3 to Ø 5 mm	⊗
	VF PAM20CDN	M20x1.5 for 3 cables, Ø 1 to Ø 4 mm	⊗
	VF PAM20CEN	M20x1.5 for 3 cables, Ø 3 to Ø 5 mm	⊗
	VF PAM20CFN	M20x1.5 for 4 cables, Ø 1 to Ø 4 mm	⊗
PG threading	VF PAP13C6N	PG 13.5, Ø 6 to Ø 12 mm cable	○
	VF PAP13C5N	PG 13.5, Ø 5 to Ø 10 mm cable	○
	VF PAP13C3N	PG 13.5, Ø 3 to Ø 7 mm cable	○
	VF PAP11C5N	PG 11, Ø 5 to Ø 10 mm cable	○
	VF PAP11C4N	PG 11, Ø 4 to Ø 8 mm cable	○
	VF PAP11C3N	PG 11, Ø 3 to Ø 7 mm cable	○



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

100 pcs pack.

Article	Description
VF PFM20C8N	Chockplug for cable from Ø8 to Ø12 mm, threaded M20x1,5
VF PFM20C4N	Chockplug for cable from Ø4 to Ø8 mm, threaded M20x1,5



Safety screws
Screws in stainless steel with tamper-resistant Torx buttonheads. Devices fixed with this kind of screws cannot be removed or tampered by common tools.

10 pcs pack.

Article	Description
VF VAM4X10BW-X	M4X10 screw, tamper-resistant OneWay, AISI 304
VF VAM4X15BW-X	M4X15 screw, tamper-resistant OneWay, AISI 304
VF VAM4X20BW-X	M4X20 screw, tamper-resistant OneWay, AISI 304
VF VAM4X25BW-X	M4X25 screw, tamper-resistant OneWay, AISI 304
VF VAM5X10BW-X	M5X10 screw, tamper-resistant OneWay, AISI 304
VF VAM5X15BW-X	M5X15 screw, tamper-resistant OneWay, AISI 304
VF VAM5X20BX-X	M5X20 screw, tamper-resistant OneWay, AISI 304

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



Female connector M8 and M12
- Self-locking vibration-damping ring nut.
- High flexibility wire suitable to be used in movable chains
- Protection degree IP68
- Gold plated contact (resistance < 5 mΩ)
- Connector body in polyurethane

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



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 M20
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 M20 x 1.5 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 M20
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 or FS by screwing it on one of the conduit entries not used for electric cables.
Protection degree IP67.

5 pcs pack.

Article	Description
VF ILI024GP	Light indicator yellow, 24 Vac/dc
VF ILI024RP	Light indicator red, 24 Vac/dc
VF ILI024VP	Light indicator green, 24 Vac/dc
VF ILX000GP	Light indicator yellow, without lamp
VF ILX000RP	Light indicator red, without lamp
VF ILX000VP	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 within the limits prescribed in the general catalogue or in the documentation supplied with the product and in conformity with the Standards in force, in order to avoid damages to persons or goods, is under the responsibility of the user. The drawings and data contained in this catalog are not binding, and we reserve the right to improve the quality of our products to modify them at any time without prior notification. This publication cannot be copied in whole or in part without prior permission from the publisher.



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