



PIZZATO ELETTRICA · PRODUCT OVERVIEW 2026

Position switches, safety devices and HMI — with prices

INO Automation supplies the Pizzato range in Latvia and the Baltics: position switches, microswitches, safety switches and sensors, safety modules, buttons, foot switches and accessories. One order, one invoice, local technical support.

How to read the prices



- The orange figure under each article code is the price **per piece in EUR, excluding VAT** and delivery.
- Articles without a price — and versions not shown in this overview — are available on request.
- Some articles are sold in packs or with a minimum order quantity; we confirm this with every quotation.
- Prices as of October 2026, subject to change without notice.

What else INO Automation does

Pneumatics

Cylinders, valves, fittings, air preparation and tubing from SMC, Camozzi, Metal Work, Pneumax and Aventics/Rexroth — popular items in stock in Riga.

Electric motor repair

Diagnostics, rewinding, bearing replacement and restoration — we tell you honestly whether a repair is worth it.

Sensors and electronics

Inductive, optical and pressure sensors, encoders, relays, power supplies and connection technology.

CNC milling

Metal parts to your drawing or sample — brackets, fixtures and small series, delivered together with components.

Orders and quotations

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2 INO Automation



About us, prices and contacts - inside front cover

3 Position switches



3A

Position switches for heavy duty applications



FD series

► 11



FP series

► 12



FL series

► 13



FC series

► 14



FR series

► 15



FX series

► 16



FM series

► 17

3B

Position switches for standard applications

3C

Position switches without actuator for heavy duty applications



FD, FL, FC, FP series

► 18

3D

Position switches without actuator for standard applications



FR, FX, FM series

► 18

3E

Position switches for standard applications with reset



FR series

► 19

3F

Switches for special applications



Electronic contact block

► 19



High temperatures

► 19



3G

Modular pre-wired position switches



NA series

► 21



NF series

► 21

3H

Microswitches



MK series

► 23



Series MS
Series MF

► 25



4 Human-machine interface

4A

Foot switches

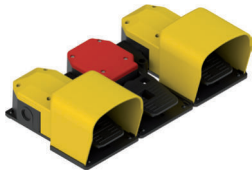


PA - PX series

► 27

4B

Modular foot switches



PC series

► 28

4C

Single buttons



E2 PU, E2 PL series

► 30

4C

Dual/triple/quadruple buttons



E2 PD, E2 PT,
E2 PQ series

► 30

4D

Selector switches



E2 SE, E2 SL,
E2 SC series

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4E

Emergency stop buttons



E2 PE
series

► 32

4F

Luminous discs



VE DL
series

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4G

Indicator lights



E2 IL, E6 IL series

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4H

Joysticks



E2 MA series

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4I

USB sockets
RJ45 sockets



E2 USB, E2 RJ45 series

► 34

4J

Potentiometers



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4K

Buzzers



E6 IS series

► 35

4L

Single contact
blocks



E2 CP, E2 CF series

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4M

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blocks



E2 CP, E2 CF series

► 36

4N

LED units



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4O

Protected contact
blocks



FR, FX, FK series

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4P

Housings

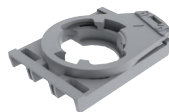


ES, EA series

► 37

4Q

Accessories



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5 Safety devices

5A

Safety switches with separate actuator



For heavy duty applications

► 43

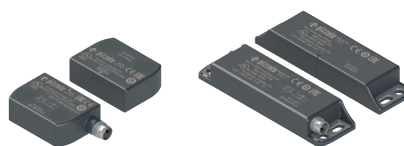


For standard applications

► 43

5B

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SR A - SR B series

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5C

RFID safety sensors



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ST D series

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Stainless steel hinge switches

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Switches with slotted hole lever

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5E

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With manual mechanical delay

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With key release

► 47



FG series

► 48



FY series

► 48



NG RFID series

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NS RFID series

► 50



NX RFID series

► 52

5F

Control device units

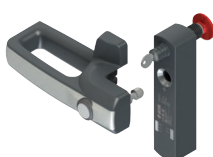


BN series

► 55

5G

P-KUBE safety handles



VF AP series
AP series
AN series

► 57

5H

Connection gateway for safety devices



BP series

► 61

5I

Passive distribution box



BC series

► 62

5L

Safety rope switches



With and without reset for emergency stops or simple stops

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6 Safety modules



6A

For emergency stops and movable guard monitoring



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► 64

6B

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CS AR series

► 65

6C

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CS AT series

► 65

6D

Safety timer modules



CS FS series

► 65

6E

For two-hand controls or synchronism monitoring



CS DM series

► 65

6F

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6G

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7 Accessories



Connectors with cable

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M8 - M12 connectors

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M12 connectors for series connection

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M23 connectors

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The products shown in the product overview represent only a selection of Pizzato Elettrica's product range. For the full range, please refer to the **general catalogues**.

FD series

Metal housing

One M20x1.5 conduit entry

Protection degree IP67

Marks:     

Ambient temperature: -25°C ... +80°C

External gasket

Roller, stainless
steel, external
gasket

Roller, stainless
steel



Snap action contacts 1NO+1NC

FD 501-M2 € 10.24  FD 502-M2 € 11.62  FD 505-M2 € 11.63  FD 510-M2 € 11.39  FD 511-M2 € 12.65  FD 515-M2 € 13.25  FD 516-M2 € 14.85 

Slow action contacts 1NO+1NC

FD 601-M2 € 9.81  FD 602-M2 € 11.18  FD 605-M2 € 11.21  FD 610-M2 € 10.96  FD 611-M2 € 12.22  FD 615-M2 € 12.82  FD 616-M2 € 14.40 

Slow action contacts 2NC

FD 901-M2 € 10.40  FD 902-M2 € 11.78  FD 905-M2 € 11.79  FD 910-M2 € 11.54  FD 911-M2 € 12.80  FD 915-M2 € 13.40  FD 916-M2 € 15.00 

Slow action contacts 1NO+2NC

FD 2001-M2 € 13.05  FD 2002-M2 € 14.43  FD 2005-M2 € 14.44  FD 210-M2 € 14.20  FD 211-M2 € 15.46  FD 215-M2 € 16.05  FD 216-M2 € 17.65 

Snap action contacts 2x(1NO-1NC)

FD 201-M2 € 14.76 FD 202-M2 € 16.13 FD 205-M2 € 16.15 FD 210-M2 € 15.90 FD 211-M2 € 17.16 FD 215-M2 € 17.76 FD 216-M2 € 19.36

Spring rod with
plastic tip

Spring rod with
wire tip

Spring rod

Roller, stainless
steel

Adjustable round
rod

Adjustable lever



Snap action contacts 1NO+1NC

FD 520-M2 € 12.26 FD 521-M2 € 12.29 FD 525-M2 € 12.88 FD 531-M2 € 16.15  FD 531-M2R24 € 17.16  FD 532-M2 € 16.68 FD 535-M2 € 16.67

Slow action contacts 1NO+1NC

/ / / FD 631-M2 € 15.72  FD 631-M2R24 € 16.73  FD 632-M2 € 16.24 FD 635-M2 € 16.24

Slow action contacts 2NC

/ / / FD 931-M2 € 16.30  FD 931-M2R24 € 17.32  FD 932-M2 € 16.84 FD 935-M2 € 16.82

Slow action contacts 1NO+2NC

FD 2020-M2 € 15.07 FD 2022-M2 FD 2025-M2 € 15.69 FD 2031-M2 € 18.95  FD 2031-M2R24 € 19.97  FD 2032-M2 € 19.49 FD 2035-M2 € 19.47

Snap action contacts 2x(1NO-1NC)

FD 220-M2 € 16.77 FD 221-M2 € 16.80 FD 225-M2 € 17.39 FD 231-M2 € 20.66 FD 231-M2R24 € 21.67 FD 232-M2 € 21.19 FD 235-M2 € 21.18

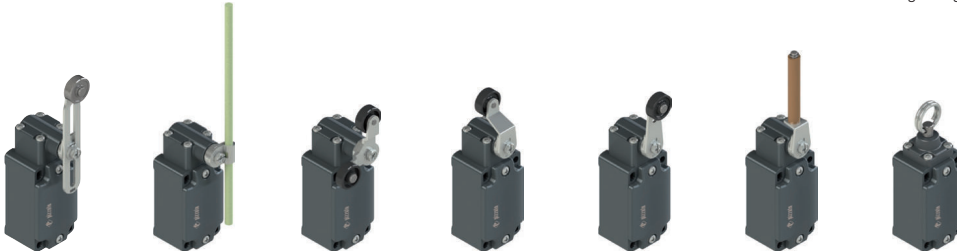
Roller, stainless
steel

Glass fibre rod

Bistable

Porcelain roller

Rope switch for
signalling



Snap action contacts 1NO+1NC

FD 535-M2R24 € 17.68 FD 536-M2 € 16.72 FD 542-M2 € 19.53  FD 551-M2 € 15.33  FD 552-M2 € 15.33  FD 553-E11M2V9 € 19.05  FD 576-M2 € 13.62

Slow action contacts 1NO+1NC

FD 635-M2R24 € 17.25 FD 636-M2 € 16.28 / FD 651-M2 € 14.88  FD 652-M2 € 14.88  FD 653-E11M2V9 € 18.62  FD 676-M2 € 13.20

Slow action contacts 2NC

FD 935-M2R24 € 17.84 FD 936-M2 € 16.87 / FD 951-M2 € 15.48  FD 952-M2 € 15.48  FD 953-E11M2V9 € 19.20  FD 976-M2 € 13.78

Slow action contacts 1NO+2NC

FD 2035-M2R24 € 20.49 FD 2036-M2 € 19.53 / FD 2051-M2 € 18.13  FD 2052-M2 € 18.13  FD 2053-E11M2V9 € 21.85  FD 2076-M2 € 16.43

Snap action contacts 2x(1NO-1NC)

FD 235-M2R24 € 22.19 FD 236-M2 € 21.23 / FD 251-M2 € 19.84 FD 252-M2 € 19.84 FD 253-E11M2 € 23.36 FD 276-M2 € 18.13

Accessories

See page 71.

For a complete list of
accessories, see the
general catalogues.





FP series

Technopolymer housing

One M20x1.5 conduit entry

Protection degree IP67

Marks:

Ambient temperature: -25°C ... +80°C

External gasket

Roller, stainless steel, external gasket

Roller, stainless steel



Snap action contacts 1NO+1NC

FP 501-M2 € 8.22 FP 502-M2 € 9.59 FP 505-M2 € 9.62 FP 510-M2 € 9.28 FP 511-M2 € 10.61 FP 515-M2 € 10.95 FP 516-M2 € 12.84

Slow action contacts 1NO+1NC

FP 601-M2 € 7.79 FP 602-M2 € 9.15 FP 605-M2 € 9.18 FP 610-M2 € 8.85 FP 611-M2 € 10.18 FP 615-M2 € 10.52 FP 616-M2 € 12.40

Slow action contacts 2NC

FP 901-M2 € 8.37 FP 902-M2 € 9.75 FP 905-M2 € 9.76 FP 910-M2 € 9.44 FP 911-M2 € 10.76 FP 915-M2 € 11.10 FP 916-M2 € 13.00

Slow action contacts 1NO+2NC

FP 2001-M2 € 11.02 FP 2002-M2 € 12.40 FP 2005-M2 € 12.43 FP 210-M2 € 12.09 FP 211-M2 € 13.42 FP 215-M2 € 13.75 FP 216-M2 € 15.65

Snap action contacts 2x(1NO-1NC)

FP 201-M2 € 12.73 FP 202-M2 € 14.11 FP 205-M2 € 14.12 FP 210-M2 € 13.79 FP 211-M2 € 15.12 FP 215-M2 € 15.46 FP 216-M2 € 17.36

Spring rod with plastic tip

Spring rod with wire tip

Spring rod

Roller, stainless steel

Adjustable round rod

Adjustable lever



Snap action contacts 1NO+1NC

FP 520-M2 € 10.23 FP 521-M2 € 10.27 FP 525-M2 € 10.86 FP 531-M2 € 12.31 FP 531-M2R24 € 13.33 FP 532-M2 € 12.83 FP 535-M2 € 12.83

Slow action contacts 1NO+1NC

/ / / FP 631-M2 € 11.87 FP 631-M2R24 € 12.88 FP 632-M2 € 12.40 FP 635-M2 € 12.39

Slow action contacts 2NC

/ / / FP 931-M2 € 12.47 FP 931-M2R24 € 13.47 FP 932-M2 € 12.99 FP 935-M2 € 12.97

Slow action contacts 1NO+2NC

FP 2020-M2 € 13.04 FP 2022-M2 FP 2025-M2 € 13.66 FP 2031-M2 € 15.12 FP 2031-M2R24 € 16.13 FP 2032-M2 € 15.64 FP 2035-M2 € 15.63

Snap action contacts 2x(1NO-1NC)

FP 220-M2 € 14.74 FP 221-M2 € 14.77 FP 225-M2 € 15.37 FP 231-M2 € 16.82 FP 231-M2R24 € 17.82 FP 232-M2 € 17.34 FP 235-M2 € 17.33

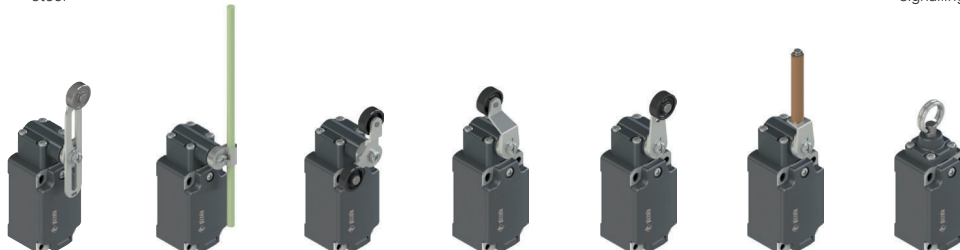
Roller, stainless steel

Glass fibre rod

Bistable

Porcelain roller

Rope switch for signalling



Snap action contacts 1NO+1NC

FP 535-M2R24 € 13.83 FP 536-M2 € 12.87 FP 542-M2 € 15.73 FP 551-M2 € 11.67 FP 552-M2 € 11.67 FP 553-E11M2V9 € 15.78 FP 576-M2 € 11.60

Slow action contacts 1NO+1NC

FP 635-M2R24 € 13.40 FP 636-M2 € 12.44 / FP 651-M2 € 11.25 FP 652-M2 € 11.25 FP 653-E11M2V9 € 15.34 FP 676-M2 € 11.17

Slow action contacts 2NC

FP 935-M2R24 € 13.99 FP 936-M2 € 13.03 / FP 951-M2 € 11.83 FP 952-M2 € 11.83 FP 953-E11M2V9 € 15.94 FP 976-M2 € 11.75

Slow action contacts 1NO+2NC

FP 2035-M2R24 € 16.64 FP 2036-M2 € 15.68 / FP 2051-M2 € 14.48 FP 2052-M2 € 14.48 FP 2053-E11M2V9 € 18.59 FP 2076-M2 € 14.40

Snap action contacts 2x(1NO-1NC)

FP 235-M2R24 € 18.34 FP 236-M2 € 17.38 / FP 251-M2 € 16.18 FP 252-M2 € 16.18 FP 253-E11M2 € 20.09 FP 276-M2 € 16.11

Position switches with swivelling lever without actuator, see page 18

FL series

Metal housing

Three M20x1.5 conduit entries

Protection degree IP67

Marks:     

Ambient temperature: -25°C ... +80°C

External gasket

Roller, stainless steel, external gasket

Roller, stainless steel



Snap action contacts 1NO+1NC

FL 501-M2
€ 10.61

FL 502-M2
€ 11.97

FL 505-M2
€ 12.00

FL 510-M2
€ 11.74

FL 511-M2
€ 13.00

FL 515-M2
€ 13.61

FL 516-M2
€ 15.20

Slow action contacts 1NO+1NC

FL 601-M2
€ 10.17

FL 602-M2
€ 11.54

FL 605-M2
€ 11.57

FL 610-M2
€ 11.31

FL 611-M2
€ 12.57

FL 615-M2
€ 13.17

FL 616-M2
€ 14.77

Slow action contacts 2NC

FL 901-M2
€ 10.76

FL 902-M2
€ 12.13

FL 905-M2
€ 12.15

FL 910-M2
€ 11.90

FL 911-M2
€ 13.16

FL 915-M2
€ 13.77

FL 916-M2
€ 15.35

Slow action contacts 1NO+2NC

FL 2001-M2
€ 13.42

FL 2002-M2
€ 14.78

FL 2005-M2
€ 14.81

FL 210-M2
€ 14.55

FL 2011-M2
€ 15.81

FL 2015-M2
€ 16.42

FL 2016-M2
€ 18.00

Snap action contacts 2x(1NO-1NC)

FL 201-M2
€ 15.12

FL 202-M2
€ 16.48

FL 205-M2
€ 16.51

FL 210-M2
€ 16.25

FL 211-M2
€ 17.51

FL 215-M2
€ 18.11

FL 216-M2
€ 19.71

Spring rod with plastic tip

Spring rod with wire tip

Spring rod

Roller, stainless steel

Adjustable round rod

Adjustable lever



Snap action contacts 1NO+1NC

FL 520-M2
€ 12.61

FL 521-M2
€ 12.65

FL 525-M2
€ 13.25

FL 531-M2
€ 16.51

FL 531-M2R24
€ 17.52

FL 532-M2
€ 17.03

FL 535-M2
€ 17.03

Slow action contacts 1NO+1NC

/

/

/

FL 631-M2
€ 16.07

FL 631-M2R24
€ 17.08

FL 632-M2
€ 16.60

FL 635-M2
€ 16.59

Slow action contacts 2NC

/

/

/

FL 931-M2
€ 16.67

FL 931-M2R24
€ 17.68

FL 932-M2
€ 17.19

FL 935-M2
€ 17.17

Slow action contacts 1NO+2NC

FL 2020-M2
€ 15.42

FL 2022-M2

FL 2025-M2
€ 16.05

FL 2031-M2
€ 19.32

FL 2031-M2R24
€ 20.33

FL 2032-M2
€ 19.84

FL 2035-M2
€ 19.84

Snap action contacts 2x(1NO-1NC)

FL 220-M2
€ 17.12

FL 221-M2
€ 17.16

FL 225-M2
€ 17.76

FL 231-M2
€ 21.02

FL 231-M2R24
€ 22.04

FL 232-M2
€ 21.54

FL 235-M2
€ 21.53

Roller, stainless steel

Glass fibre rod

Bistable

Porcelain roller

Rope switch for signalling



Snap action contacts 1NO+1NC

FL 535-M2R24
€ 18.04

FL 536-M2
€ 17.07

FL 542-M2
€ 19.89

FL 551-M2
€ 15.68

FL 552-M2
€ 15.68

FL 553-E11M2V9
€ 19.41

FL 576-M2
€ 13.99

Slow action contacts 1NO+1NC

FL 635-M2R24
€ 17.60

FL 636-M2
€ 16.64

/

FL 651-M2
€ 15.25

FL 652-M2
€ 15.25

FL 653-E11M2V9
€ 18.98

FL 676-M2
€ 13.55

Slow action contacts 2NC

FL 935-M2R24
€ 18.19

FL 936-M2
€ 17.23

/

FL 951-M2
€ 15.83

FL 952-M2
€ 15.83

FL 953-E11M2V9
€ 19.57

FL 976-M2
€ 14.14

Slow action contacts 1NO+2NC

FL 2035-M2R24
€ 20.85

FL 2036-M2
€ 19.88

/

FL 2051-M2
€ 18.49

FL 2052-M2
€ 18.49

FL 2053-E11M2V9
€ 22.22

FL 2076-M2
€ 16.80

Snap action contacts 2x(1NO-1NC)

FL 235-M2R24
€ 22.54

FL 236-M2
€ 21.58

/

FL 251-M2
€ 20.19

FL 252-M2
€ 20.19

FL 253-E11M2
€ 23.71

FL 276-M2
€ 18.50

Accessories

See page 71.

For a complete list of accessories, see the general catalogues.



FC series

Metal housing

One M20x1.5 conduit entry

Protection degree IP67

Marks:

Ambient temperature: -25°C ... +80°C

External gasket

Roller, stainless steel, external gasket

Roller, stainless steel



Snap action contacts 1NO+1NC

FC 301-M2
€ 11.31

FC 302-M2
€ 12.69

FC 305-M2
€ 12.71

FC 310-M2
€ 12.45

FC 311-M2
€ 13.72

FC 315-M2
€ 14.31

FC 316-M2
€ 15.91

Slow action contacts 1NO+1NC

FC 3301-M2
€ 10.82

FC 3302-M2
€ 12.18

FC 3305-M2
€ 12.21

FC 3310-M2
€ 11.95

FC 3311-M2
€ 13.21

FC 3315-M2
€ 13.82

FC 3316-M2
€ 15.40

Slow action contacts 2NC

FC 3401-M2
€ 11.47

FC 3402-M2
€ 12.84

FC 3405-M2
€ 12.86

FC 3410-M2
€ 12.61

FC 3411-M2
€ 13.87

FC 3415-M2
€ 14.47

FC 3416-M2
€ 16.07

Spring rod with plastic tip

Spring rod with wire tip

Spring rod

Roller, stainless steel

Adjustable round rod

Adjustable lever



Snap action contacts 1NO+1NC

FC 320-M2
€ 13.33

FC 321-M2
€ 13.36

FC 325-M2
€ 13.95

FC 331-M2
€ 17.21

FC 331-M2R24
€ 18.23

FC 332-M2
€ 17.75

FC 335-M2
€ 17.73

Slow action contacts 1NO+1NC

FC 3320-M2
€ 12.83

FC 3321-M2
€ 12.86

FC 3325-M2
€ 13.46

FC 3331-M2
€ 16.72

FC 3331-M2R24
€ 17.73

FC 3332-M2
€ 17.24

FC 3335-M2
€ 17.24

Slow action contacts 2NC

FC 3420-M2
€ 13.48

FC 3421-M2
€ 13.51

FC 3425-M2
€ 14.11

FC 3431-M2
€ 17.37

FC 3431-M2R24
€ 18.38

FC 3432-M2
€ 17.90

FC 3435-M2
€ 17.89

Roller, stainless steel

Glass fibre rod

Porcelain roller

Rope switch for signalling



Snap action contacts 1NO+1NC

FC 335-M2R24
€ 18.75

FC 336-M2
€ 17.78

FC 351-M2
€ 16.39

FC 352-M2
€ 16.39

FC 353-E11M2
€ 19.92

FC 376-M2
€ 14.69

Slow action contacts 1NO+1NC

FC 3335-M2R24
€ 18.25

FC 3336-M2
€ 17.28

FC 3351-M2
€ 15.89

FC 3352-M2
€ 15.89

FC 3353-E11M2V9
€ 19.62

FC 3376-M2
€ 14.20

Slow action contacts 2NC

FC 3435-M2R24
€ 18.90

FC 3436-M2
€ 17.94

FC 3451-M2
€ 16.55

FC 3452-M2
€ 16.55

FC 3453-E11M2V9
€ 19.62

FC 3476-M2
€ 14.85

Position switches with swivelling lever without actuator, see page 18

FR series

Technopolymer housing 

One M20x1.5 conduit entry

Protection degree IP67, up to IP69K

(depending on the model)

Marks:    

Ambient temperature: -25°C ... +80°C

External gasket

Roller Ø 12 mm,
stainless steel

Plastic roller



Snap action contacts 1NO+1NC

FR 501-M2 € 7.10  FR 502-M2 € 7.84  FR 505-M2 € 7.84  FR 507-M2 € 8.19  FR 508-M2 € 7.59  FR 513-M2 € 9.39  FR 515-M2 € 8.03 

Slow action contacts 1NO+1NC

FR 601-M2 € 6.64  FR 602-M2 € 7.38  FR 605-M2 € 7.38  FR 607-M2 € 7.72  FR 608-M2 € 7.14  FR 613-M2 € 8.93  FR 615-M2 € 7.58 

Slow action contacts 2NC

FR 901-M2 € 7.24  FR 902-M2 € 7.97  FR 905-M2 € 7.98  FR 907-M2 € 8.32  FR 908-M2 € 7.72  FR 913-M2 € 9.52  FR 915-M2 € 8.16 

Slow action contacts 1NO+2NC

FR 2001-M2 € 9.96  FR 2002-M2 € 10.69  FR 2005-M2 € 10.70  FR 2007-M2 € 11.04  FR 2008-M2 € 10.44  FR 2013-M2 € 12.23  FR 2015-M2 € 10.88 

Snap action contacts 2x(1NO-1NC)

FR 201-M2 € 11.62  FR 202-M2 € 12.36  FR 205-M2 € 12.36  FR 207-M2 € 12.71  FR 208-M2 € 12.12  FR 213-M2 € 13.91  FR 215-M2 € 12.56 

Metal roller

Spring rod with
plastic tip

Spring rod with
wire tip

Spring rod

Round rod,
stainless steel



Snap action contacts 1NO+1NC

FR 515-M2R28 € 8.53  FR 520-M2 € 8.23  FR 521-M2 € 8.25  FR 525-M2 € 8.94  FR 530-M2 € 8.63  FR 531-M2 € 8.88  FR 550-M2 € 9.32 

Slow action contacts 1NO+1NC

FR 615-M2R28 € 8.07  /  /  /  FR 631-M2 € 8.42  FR 650-M2 € 8.87 

Slow action contacts 2NC

FR 915-M2R28 € 8.66  /  /  /  FR 931-M2 € 9.02  FR 950-M2 € 9.46 

Slow action contacts 1NO+2NC

FR 2015-M2R28 € 11.38  FR 2020-M2 € 11.09  FR 2022-M2 € 11.74  FR 2025-M2 € 11.79  FR 2030-M2 € 11.49  FR 2031-M2 € 11.74  FR 2050-M2 € 12.18 

Snap action contacts 2x(1NO-1NC)

FR 215-M2R28 € 13.05  FR 220-M2 € 12.75  FR 221-M2 € 12.79  FR 225-M2 € 13.47  FR 230-M2 € 13.16  FR 231-M2 € 13.40  FR 250-M2 € 13.85 

Porcelain roller

Adjustable lever

Adjustable safety
lever

Glass fibre rod

Rope switch for
signalling



Snap action contacts 1NO+1NC

FR 551-M2 € 9.04  FR 553-E0M2V9 € 13.10  FR 554-M2 € 9.04  FR 555-M2 € 9.32  FR 556-M2 € 9.52  FR 569-M2 € 9.33  FR 576-M2 € 10.65 

Slow action contacts 1NO+1NC

FR 651-M2 € 8.58  FR 653-E0M2V9 € 12.65  FR 654-M2 € 8.58  FR 655-M2 € 8.87  FR 656-M2 € 9.06  FR 669-M2 € 8.88  FR 676-M2 € 10.19 

Slow action contacts 2NC

FR 951-M2 € 9.18  FR 953-E0M2V9 € 13.25  FR 954-M2 € 9.18  FR 955-M2 € 9.46  FR 956-M2 € 9.66  FR 969-M2 € 9.48  FR 976-M2 € 10.78 

Slow action contacts 1NO+2NC

FR 2051-M2 € 11.90  FR 2053-E0M2V9 € 15.95  FR 2054-M2 € 11.90  FR 2055-M2 € 12.18  FR 2056-M2 € 12.36  FR 2069-M2 € 12.19  FR 2076-M2 € 13.49 

Snap action contacts 2x(1NO-1NC)

FR 251-M2 € 13.56  FR 253-E0M2  FR 254-M2 € 13.56  FR 255-M2 € 13.85  FR 256-M2 € 14.04  FR 269-M2 € 13.86  FR 276-M2 € 15.17 

Accessories

See page 71.

For a complete list of
accessories, see the
general catalogues.





FX series

Technopolymer housing

Two conduit entries M20x1.5

Protection degree IP67, up to IP69K

(depending on the model)

Marks:

Ambient temperature: -25°C ... +80°C

External gasket

Roller Ø 12 mm,
stainless steel

Plastic roller



Snap action contacts 1NO+1NC	FX 501-M2 € 7.94	FX 502-M2 € 8.68	FX 505-M2 € 8.68	FX 507-M2 € 9.02	FX 508-M2 € 8.44	FX 513-M2 € 10.23	FX 515-M2 € 8.87
Slow action contacts 1NO+1NC	FX 601-M2 € 7.49	FX 602-M2 € 8.22	FX 605-M2 € 8.23	FX 607-M2 € 8.57	FX 608-M2 € 7.97	FX 613-M2 € 9.76	FX 615-M2 € 8.41
Slow action contacts 2NC	FX 901-M2 € 8.09	FX 902-M2 € 8.81	FX 905-M2 € 8.83	FX 907-M2 € 9.17	FX 908-M2 € 8.57	FX 913-M2 € 10.36	FX 915-M2 € 9.01
Slow action contacts 1NO+2NC	FX 2001-M2 € 10.80	FX 2002-M2 € 11.53	FX 2005-M2 € 11.54	FX 2007-M2 € 11.88	FX 2008-M2 € 11.28	FX 2013-M2 € 13.08	FX 2015-M2 € 11.73
Snap action contacts 2x(1NO-1NC)	FX 201-M2 € 12.47	FX 202-M2 € 13.21	FX 205-M2 € 13.21	FX 207-M2 € 13.55	FX 208-M2 € 12.96	FX 213-M2 € 14.76	FX 215-M2 € 13.40

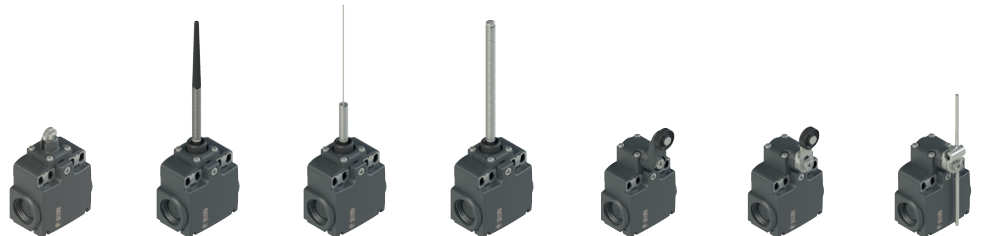
Metal roller

Spring rod with
plastic tip

Spring rod with
wire tip

Spring rod

Round rod,
stainless steel



Snap action contacts 1NO+1NC	FX 515-M2R28 € 9.37	FX 520-M2 € 9.07	FX 521-M2 € 9.10	FX 525-M2 € 9.79	FX 530-M2 € 9.48	FX 531-M2 € 9.72	FX 550-M2 € 10.17
Slow action contacts 1NO+1NC	FX 615-M2R28 € 8.90	/	/	/	FX 630-M2 € 9.02	FX 631-M2 € 9.27	FX 650-M2 € 9.71
Slow action contacts 2NC	FX 915-M2R28 € 9.50	/	/	/	FX 930-M2 € 9.62	FX 931-M2 € 9.87	FX 950-M2 € 10.31
Slow action contacts 1NO+2NC	FX 2015-M2R28 € 12.22	FX 2020-M2 € 11.92	FX 2022-M2 € 12.58	FX 2025-M2 € 12.64	FX 2030-M2 € 12.32	FX 2031-M2 € 12.57	FX 2050-M2 € 13.01
Snap action contacts 2x(1NO-1NC)	FX 215-M2R28 € 13.90	FX 220-M2 € 13.60	FX 221-M2 € 13.62	FX 225-M2 € 14.31	FX 230-M2 € 14.00	FX 231-M2 € 14.25	FX 250-M2 € 14.69

Porcelain roller

Adjustable lever

Adjustable safety
lever

Glass fibre rod

Rope switch for
signalling



Snap action contacts 1NO+1NC	FX 551-M2 € 9.88	FX 553-E0M2V9 € 13.95	FX 554-M2 € 9.88	FX 555-M2 € 10.17	FX 556-M2 € 10.36	FX 569-M2 € 10.18	FX 576-M2 € 11.49
Slow action contacts 1NO+1NC	FX 651-M2 € 9.43	FX 653-E0M2V9 € 13.49	FX 654-M2 € 9.43	FX 655-M2 € 9.71	FX 656-M2 € 9.91	FX 669-M2 € 9.72	FX 676-M2 € 11.02
Slow action contacts 2NC	FX 951-M2 € 10.02	FX 953-E0M2V9 € 14.08	FX 954-M2 € 10.02	FX 955-M2 € 10.31	FX 956-M2 € 10.49	FX 969-M2 € 10.32	FX 976-M2 € 11.62
Slow action contacts 1NO+2NC	FX 2051-M2 € 12.73	FX 2053-E0M2V9 € 16.80	FX 2054-M2 € 12.73	FX 2055-M2 € 13.01	FX 2056-M2 € 13.21	FX 2069-M2 € 13.04	FX 2076-M2 € 14.34
Snap action contacts 2x(1NO-1NC)	FX 251-M2 € 14.40	FX 253-E0M2	FX 254-M2 € 14.40	FX 255-M2 € 14.69	FX 256-M2 € 14.88	FX 269-M2 € 14.70	FX 276-M2 € 16.02

Position switches with swivelling lever without actuator, see page 18

FM series

Metal housing

One M20x1.5 conduit entry

Protection degree IP67, up to IP69K

(depending on the model)

Marks:     

Ambient temperature: -25°C ... +80°C

External gasket

Roller Ø 12 mm,
stainless steel

Metal roller



Snap action contacts 1NO+1NC

Slow action contacts 1NO+1NC

Slow action contacts 2NC

Slow action contacts 1NO+2NC

Snap action contacts 2x(1NO-1NC)

FM 501-M2

€ 9.95

FM 502-M2

€ 10.69

FM 505-M2

€ 10.69

FM 507-M2

€ 11.02

FM 508-M2

€ 10.44

FM 513-M2

€ 12.23

FM 515-M2R28

€ 11.06

FM 601-M2

€ 9.49

FM 602-M2

€ 10.23

FM 605-M2

€ 10.23

FM 607-M2

€ 10.57

FM 608-M2

€ 9.98

FM 613-M2

€ 11.78

FM 615-M2R28

€ 10.61

FM 901-M2

€ 10.09

FM 902-M2

€ 10.82

FM 905-M2

€ 10.83

FM 907-M2

€ 11.17

FM 908-M2

€ 10.57

FM 913-M2

€ 12.36

FM 915-M2R28

€ 11.21

FM 2001-M2

€ 12.80

FM 2002-M2

€ 13.53

FM 2005-M2

€ 13.55

FM 2007-M2

€ 13.88

FM 2008-M2

€ 13.29

FM 2013-M2

€ 15.08

FM 2015-M2R28

€ 13.91

FM 201-M2

€ 14.47

FM 202-M2

€ 15.21

FM 205-M2

€ 15.21

FM 207-M2

€ 15.56

FM 208-M2

€ 14.96

FM 213-M2

€ 16.76

FM 215-M2R28

€ 15.59

Spring rod with
plastic tip

Spring rod with
wire tip

Spring rod

Round rod,
stainless steel



Snap action contacts 1NO+1NC

Slow action contacts 1NO+1NC

Slow action contacts 2NC

Slow action contacts 1NO+2NC

Snap action contacts 2x(1NO-1NC)

FM 520-M2

€ 11.08

FM 521-M2

€ 11.10

FM 525-M2

€ 11.79

FM 530-M2

€ 11.69

FM 531-M2

€ 11.93

FM 550-M2

€ 12.38

FM 551-M2

€ 12.09

/

/

/

FM 630-M2

€ 11.23

FM 631-M2

€ 11.48

FM 650-M2

€ 11.92

FM 651-M2

€ 11.63

/

/

/

FM 930-M2

€ 11.83

FM 931-M2

€ 12.08

FM 950-M2

€ 12.52

FM 951-M2

€ 12.23

FM 2020-M2

€ 13.94

FM 2022-M2

€ 14.59

FM 2025-M2

€ 14.64

FM 2030-M2

€ 14.55

FM 2031-M2

€ 14.79

FM 2050-M2

€ 15.24

FM 2051-M2

€ 14.95

FM 220-M2

€ 15.60

FM 221-M2

€ 15.63

FM 225-M2

€ 16.32

FM 230-M2

€ 16.21

FM 231-M2

€ 16.46

FM 250-M2

€ 16.90

FM 251-M2

€ 16.61

Porcelain roller

Adjustable lever

Adjustable safety
lever

Glass fibre rod

Rope switch for
signalling



Snap action contacts 1NO+1NC

Slow action contacts 1NO+1NC

Slow action contacts 2NC

Slow action contacts 1NO+2NC

Snap action contacts 2x(1NO-1NC)

FM 553-E0M2V9

€ 16.16

FM 653-E0M2V9

€ 15.70

FM 953-E0M2V9

€ 16.30

FM 2053-E0M2V9

€ 19.02

FM 253-E0M2

€ 16.61

FM 554-M2

€ 12.09

FM 654-M2

€ 11.63

FM 954-M2

€ 12.23

FM 2054-M2

€ 14.95

FM 254-M2

€ 16.61

FM 555-M2

€ 12.38

FM 655-M2

€ 11.92

FM 955-M2

€ 12.52

FM 2055-M2

€ 15.24

FM 255-M2

€ 16.90

FM 556-M2

€ 12.57

FM 656-M2

€ 12.12

FM 956-M2

€ 12.71

FM 2056-M2

€ 15.42

FM 256-M2

€ 17.10

FM 569-M2

€ 12.39

FM 669-M2

€ 11.93

FM 969-M2

€ 12.53

FM 2069-M2

€ 15.25

FM 269-M2

€ 16.91

FM 576-M2

€ 13.49

FM 676-M2

€ 13.04

FM 976-M2

€ 13.62

FM 2076-M2

€ 16.34

FM 276-M2

€ 18.02

Accessories

See page 71.

For a complete list of
accessories, see the
general catalogues.



**FD, FL, FC, FP series****Position switches with swivelling lever without actuator**

Metal housing (FD, FL, FC)

Technopolymer housing (FP)

One M20x1.5 conduit entry (FD, FP, FC)

Three M20x1.5 conduit entries (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 2x(1NO-1NC)

FD 538-M2 € 15.34	FD 558-M2 € 14.28	FL 538-M2 € 15.69	FL 558-M2 € 14.62	FC 338-M2 € 16.41	FC 358-M2 € 16.33	FP 538-M2 € 11.49	FP 558-M2 € 10.62
FD 638-M2 € 14.91	FD 658-M2 € 13.83	FL 638-M2 € 15.26	FL 658-M2 € 14.18	FC 3338-M2 € 15.90	FC 3358-M2 € 14.83	FP 638-M2 € 11.06	FP 658-M2 € 10.19
FD 938-M2 € 15.50	FD 958-M2 € 14.42	FL 938-M2 € 15.85	FL 958-M2 € 14.77	FC 3438-M2 € 16.56	FC 3458-M2 € 15.48	FP 938-M2 € 11.65	FP 958-M2 € 10.78
FD 2038-M2 € 18.15	FD 2058-M2 € 17.07	FL 2038-M2 € 18.50	FL 2058-M2 € 17.43	/	/	FP 2038-M2 € 14.30	FP 2058-M2 € 13.43
FD 238-M2 € 19.85	FD 258-M2 € 18.77	FL 238-M2 € 20.20	FL 258-M2 € 19.12	/	/	FP 238-M2 € 16.00	FP 258-M2 € 15.13

Separate actuators

Round rod Square rod



VF L31 € 1.09	VF L32 € 1.61	VF L33 € 1.64	VF L34 € 2.03	VF L35 € 1.61	VF L36 € 1.65	VF L51 € 1.34	VF L52 € 1.34	VF L53 € 5.03	VF L56 € 1.83	VF L57 € 1.34
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Attention! These separate actuators can be used only with items of the FD, FL, FC and FP series.

Position switches without actuator for **standard** applications**FR, FX, FM series****Position switches with swivelling lever without actuator**

Metal housing (FM)

Technopolymer housing (FR, FX)

One M20x1.5 conduit entry (FR, FM)

Two M20x1.5 conduit entries (FX)

Protection degree IP67, up to IP69K

(depending on the model)

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 2x(1NO-1NC)

FR 538-M2 € 7.96	FX 538-M2 € 8.80	FM 538-M2 € 11.01	/
FR 638-M2 € 7.50	FX 638-M2 € 8.33	FM 638-M2 € 10.56	FR 638-W3M2 € 11.52
FR 938-M2 € 8.09	FX 938-M2 € 8.93	FM 938-M2 € 11.14	FR 938-W3M2 € 12.12
FR 2038-M2 € 10.80	FX 2038-M2 € 11.55	FM 2038-M2 € 13.56	FR 2038-W3M2 € 14.53
FR 238-M2 € 12.48	FX 238-M2 € 13.33	FM 238-M2 € 16.54	FR 238-W3M2 € 16.50

Separate actuators

VF A00KA € 0.95	VF A00KB € 1.21	VF A00KC € 1.17	VF A00KD € 1.35	VF A00KE € 1.33	VF A00KF € 1.33	VF A00KG € 1.33	VF A00KH € 1.33	VF A00KP € 1.78

Stainless steel rod 3 x 3 x 125 mm, adjustable Stainless steel rod Ø 3 x 125 mm, adjustable Glass fibre rod Ø 6 x 200 mm, adjustable

VF A00LB € 1.64	VF A00LE € 1.60	VF A00LH € 1.61	VF A00LL € 2.39

To check the correspondence with previous lever codes, please consult the table on page 277 of the General Catalogue Detection 2025-2026.
 Example: VF LE30 -> VF A00KA

FR series

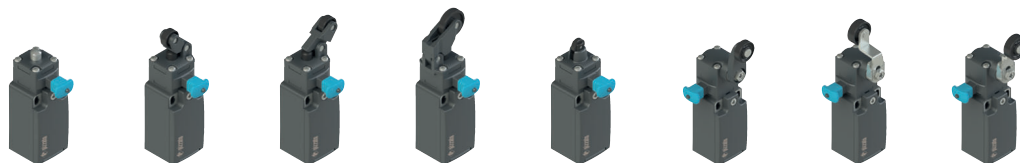
Technopolymer housing

One M20x1.5 conduit entry

Protection degree IP67

Marks:    

Ambient temperature: -25°C ... +80°C



Slow action contacts 1NO+1NC

FR 601-W3M2
€ 8.45

FR 602-W3M2
€ 9.19

FR 605-W3M2
€ 9.20

FR 607-W3M2
€ 9.54

FR 615-W3M2
€ 9.39

FR 630-W3M2
€ 12.19

FR 651-W3M2
€ 12.60

FR 654-W3M2
€ 12.60

Slow action contacts 2NC

FR 901-W3M2
€ 9.05

FR 902-W3M2
€ 9.79

FR 905-W3M2
€ 9.60

FR 907-W3M2
€ 10.14

FR 915-W3M2
€ 9.98

FR 930-W3M2
€ 12.79

FR 951-W3M2
€ 13.20

FR 954-W3M2
€ 13.20

Slow action contacts 1NO+2NC

FR 2001-W3M2
€ 11.77

FR 2002-W3M2
€ 12.91

FR 2005-W3M2
€ 12.52

FR 2007-W3M2
€ 12.86

FR 2015-W3M2
€ 12.70

FR 2030-W3M2
€ 15.51

FR 2051-W3M2
€ 15.91

FR 2054-W3M2
€ 15.91

To order a product of the FX or FM series, replace FR with FX or FM in the codes shown above.

Example: FR 601-W3M2 → FM 601-W3M2

Position switches with swivelling lever without actuator, see page 18

Pizzato Elettrica has developed a reset device code W3 to make perfectly simultaneous the actuator and the contact block tripping. This device is a module that is mounted between the body and the head of the switch that can be rotated independently from the head. The reset device has the following advantages:

- Contact blocks with snap action are no more necessary because the tripping movement is executed by the reset device itself;
- Can be rotated independently from the head ensuring maximum flexibility during installation;
- Can be delivered with two different actuating forces: standard (W3) and increased (W4) for vibration applications;
- Mechanical endurance: 1 million operating cycles.



3F Switches for special applications

FR series

with electronic contact block

Technopolymer housing

One M20x1.5 conduit entry

Protection degree IP67

Marks:   

Ambient temperature: -25°C ... +80°C

PNP switching outputs (1NO-1NC)

FR E121-M2
€ 20.45

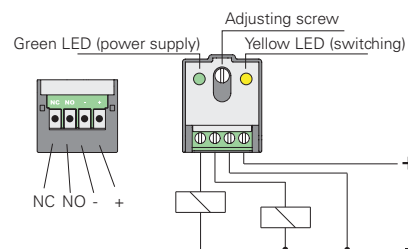
FR E155-M2
€ 21.52

FR E138-M2
€ 20.15

For separate
actuators see
page 18

- Rated voltage (Ue): 10 ... 30 Vdc
- Rated current (Ie): 200 mA
- Adjustable switching point
- Bounce-free output signals
- Two static outputs, 1NO and 1NC

- Reduced actuating force
- Signal LEDs for power supply and switching
- Minimum differential travel



MK series

for high temperatures

Ambient temperature: -25°C ... +120°C

Technopolymer housing

Versions with positive opening

Screw terminals

Protection degree IP40 (electrical contacts)

Marks:    



Snap action contacts 1NO+1NC

MK V11D05-T7
€ 4.28

MK V11D10-T7
€ 5.33

MK V11D12-T7
€ 6.05

MK V11D15-T7
€ 6.27

MK V11F30-T7
€ 4.13

MK V11F40-R16T7
€ 4.86

MK V11F45-R16T7
€ 4.77

FD series

for high temperatures

Ambient temperature: -15°C ... +180°C

Metal housing

One M20x1.5 conduit entry

Protection degree IP67

Marks:   



Slow action contacts 1NO+2NC

FD 2011-M2T2

FD 2016-M2T2

FD 2031-M2R24T2

FD 2032-M2T2

FD 2033-M2T2

FD 2056-M2R24T2

FD 2057-M2R24T2

Accessories

See page 71.

For a complete list of
accessories, see the
general catalogues.



Notes

[illegible][illegible]

NA series

Metal housing
Cable length 2 m (other cable lengths available on request)
Mounting hole spacing 20 mm
Protection degrees 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 € 16.51	NA B110BB-DN2 € 17.82	NA B110EB-DN2 € 17.90	NA B110FB-DN2 € 19.30	NA B110HB-DN2 € 18.11	NA B110HE-DN2 € 19.07	NA B112KC-DN2 € 19.02	NA B112KD-DN2 € 19.20
NA B120AB-DN2 € 20.58	NA B120BB-DN2 € 21.91	NA B120EB-DN2 € 21.97	NA B120FB-DN2 € 23.37	NA B120HB-DN2 € 22.18	NA B120HE-DN2 € 23.14	NA B122KC-DN2 € 23.10	NA B122KD-DN2 € 23.27
NA B220AB-DN2 € 24.01	NA B220BB-DN2 € 25.34	NA B220EB-DN2 € 25.42	NA B220FB-DN2 € 26.81	NA B220HB-DN2 € 25.62	NA B220HE-DN2 € 26.57	NA B222KC-DN2 € 26.53	NA B222KD-DN2 € 26.72
NA G110AB-DN2 € 16.26	NA G110BB-DN2 € 17.58	NA G110EB-DN2 € 17.65	NA G110FB-DN2 € 19.05	/	/	NA G112KC-DN2 € 18.77	NA G112KD-DN2 € 18.95
NA G120AB-DN2 € 20.67	NA G120BB-DN2 € 22.00	NA G120EB-DN2 € 22.06	NA G120FB-DN2 € 23.47	/	/	NA G122KC-DN2 € 23.18	NA G122KD-DN2 € 23.36
NA G220AB-DN2 € 24.08	NA G220BB-DN2 € 25.40	NA G220EB-DN2 € 25.47	NA G220FB-DN2 € 26.87	/	/	NA G222KC-DN2 € 26.60	NA G222KD-DN2 € 26.77

M12 connector, right

 To order a product with M12 right connector, replace DN2 with DMK in the codes shown above.
Example:
NA B110AA-DN2 →
NA B110AA-DMK

M12 connector, bottom

 To order a product with M12 bottom connector, replace DN2 with SMK in the codes shown above.
Example:
NA B110AA-DN2 →
NA B110AA-SMK

AMP Superseal 1.5 connector

 To order a product with AMP connector, replace DN2 with SAK in the codes shown above. Example:
NA B110AA-DN2 →
NA B110AA-SAK

Cable and M12 connector

 To order a product with cable and M12 connector replace DN2 with DM0.2 in the codes shown above. Example:
NA B110AA-DN2 →
NA B110AA-DM0.2

NF series

Technopolymer housing 
Cable length 2 m (other cable lengths available on request)
Mounting hole spacing 20 mm
Protection degrees 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 € 14.12	NF B110BB-DN2 € 15.44	NF B110EB-DN2 € 15.52	NF B110FB-DN2 € 16.91	NF B110HB-DN2 € 15.73	NF B110HE-DN2 € 16.68	NF B112KC-DN2 € 16.64	NF B112KD-DN2 € 16.82
NF B120AB-DN2 € 17.60	NF B120BB-DN2 € 18.92	NF B120EB-DN2 € 18.99	NF B120FB-DN2 € 20.38	NF B120HB-DN2 € 19.20	NF B120HE-DN2 € 20.16	NF B122KC-DN2 € 20.11	NF B122KD-DN2 € 20.29
NF B220AB-DN2 € 21.06	NF B220BB-DN2 € 22.39	NF B220EB-DN2 € 22.45	NF B220FB-DN2 € 23.85	NF B220HB-DN2 € 22.66	NF B220HE-DN2 € 23.62	NF B222KC-DN2 € 23.58	NF B222KD-DN2 € 23.76
NF G110AB-DN2 € 13.87	NF G110BB-DN2 € 15.20	NF G110EB-DN2 € 15.28	NF G110FB-DN2 € 16.67	/	/	NF G112KC-DN2 € 16.39	NF G112KD-DN2 € 16.56
NF G120AB-DN2 € 17.68	NF G120BB-DN2 € 19.01	NF G120EB-DN2 € 19.07	NF G120FB-DN2 € 20.48	/	/	NF G122KC-DN2 € 20.20	NF G122KD-DN2 € 20.37
NFG220AB-DN2 € 21.12	NFG220BB-DN2 € 22.45	NFG220EB-DN2 € 22.52	NFG220FB-DN2 € 23.92	/	/	NFG222KC-DN2 € 23.63	NFG222KD-DN2 € 23.82

M12 connector, right

 To order a product with M12 right connector, replace DN2 with DMK in the codes shown above.
Example:
NF B110AA-DN2 →
NF B110AA-DMK

M12 connector, bottom

 To order a product with M12 bottom connector, replace DN2 with SMK in the codes shown above.
Example:
NF B110AA-DN2 →
NF B110AA-SMK

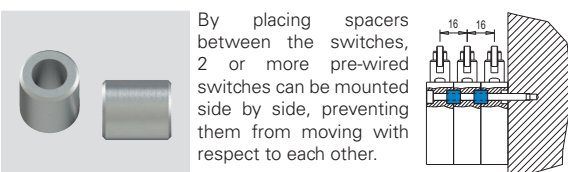
AMP Superseal 1.5 connector

 To order a product with AMP connector, replace DN2 with SAK in the codes shown above. Example:
NF B110AA-DN2 →
NF B110AA-SAK

Cable and M12 connector

 To order a product with cable and M12 connector replace DN2 with DM0.2 in the codes shown above. Example:
NF B110AA-DN2 →
NF B110AA-DM0.2

Accessories



By placing spacers between the switches, 2 or more pre-wired switches can be mounted side by side, preventing them from moving with respect to each other.

Article	Description
VN DT1F € 0.31	Spacer for NA and NF series

Packs of 10 pcs. We only accept orders for complete packaging units.

Accessories

See page 71.
For a complete list of accessories, see the general catalogues.





Housings

NA metal housing
hole spacing 20 mmNF technopolymer housing
hole spacing 20 mm

NA B11000 € 7.72	⊕	1NO+1NC	R	NF B11000 € 6.54	⊕	1NO+1NC	R
NA G11000 € 7.48	⊕	1NO+1NC	L	NF G11000 € 6.29	⊕	1NO+1NC	L
NA B12000 € 9.13	⊕	1NO+2NC	R	NF B12000 € 7.94	⊕	1NO+2NC	R
NA G12000 € 9.20	⊕	1NO+2NC	L	NF G12000 € 8.03	⊕	1NO+2NC	L
NA B22000 € 10.96	⊕	2NO+2NC	R	NF B22000 € 9.79	⊕	2NO+2NC	R
NA G22000 € 11.02	⊕	2NO+2NC	L	NF G22000 € 9.84	⊕	2NO+2NC	L

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

Connectors with cable

Connector
for NA housingsConnector
for NF housingsCable
length (m)

VN CM11DN2 € 6.54	1NO+1NC	VN CP11DN2 € 5.34	1NO+1NC	2
VN CM11DN5 € 11.39	1NO+1NC	VN CP11DN5 € 9.01	1NO+1NC	5
VN CM12DN2 € 9.22	1NO+2NC	VN CP12DN2 € 7.41	1NO+2NC	2
VN CM12DN5 € 15.63	1NO+2NC	VN CP12DN5 € 13.13	1NO+2NC	5
VN CM22DN2 € 10.82	2NO+2NC	VN CP22DN2 € 9.04	2NO+2NC	2
VN CM22DN5 € 17.58	2NO+2NC	VN CP22DN5 € 15.69	2NO+2NC	5

M12 or AMP connectors

M12 connector, right,
for NA housings

€ 6.16
VN CM11DMK 1NO+1NC
VN CM22DMK € 8.79 2NO+2NC

M12 connector, bottom,
for NA housings

€ 6.16
VN CM11SMK 1NO+1NC
VN CM22SMK € 8.79 2NO+2NC

Cable and M12
connector for NA
housings

€ 11.69
VN CM11DM0.2 1NO+1NC
VN CM22DM0.2 € 18.90 2NO+2NC

M12 connector, right,
for NF housings

€ 5.12
VN CP11DMK 1NO+1NC
VN CP22DMK € 7.10 2NO+2NC

M12 connector,
bottom, for NF
housings

€ 5.12
VN CP11SMK 1NO+1NC
VN CP22SMK € 7.10 2NO+2NC

AMP Superseal 1.5
connector for NF housings

€ 5.12
VN CP11SAK 1NO+1NC
VN CP02SAK 2NC
€ 5.12

Cable and M12
connector for NF
housings

€ 10.15
VN CP11DM0.2 1NO+1NC
VN CP22DM0.2 2NO+2NC
€ 17.04

Attention! Always check that the applied electric load is within the voltage and current limits defined for the connectors.

Actuators

Unidirectional roller
lever

VN AA0AA ⊕ € 2.83	VN AA0AB ⊕ € 2.25	VN AA0AC ⊕ € 2.83	VN AA0AE ⊕ € 3.19	VN AA0BB ⊕ € 3.66	VN AA0BE ⊕ € 4.07	VN AA0CB ⊕ € 3.69	VN AA0CH ⊕ € 3.28	VN AA0CP ⊕ € 5.04
				Plunger with Ø 6 mm ball				
VN AA0CV ⊕ € 3.59	VN AA0EB ⊕ € 3.64	VN AA0EE ⊕ € 4.12	VN AA0FB ⊕ € 5.03	VN AA0GB ⊕ € 5.32	VN AA0HB € 3.85	VN AA0HE € 4.80	VN AA0HH € 4.67	VN AA0BB-W5 ⊕ € 5.89

Levers

Attention! These separate actuators can be used only with items of the NA and NF series.

VN A00KA ⊕ € 0.95	VN A00KB ⊕ € 1.21	VN A00KC ⊕ € 1.17	VN A00KD ⊕ € 1.35	VN A00KE ⊕ € 1.33	VN A00KF ⊕ € 1.33	VN A00KG ⊕ € 1.33	VN A00KH ⊕ € 1.33	VN A00KP ⊕ € 1.78
Stainless steel rod 3 x 3 x 125 mm, adjustable	Stainless steel rod Ø 3 x 125 mm, adjustable	Glass fibre rod Ø 3 x 200 mm, adjustable		Metal head for swivelling lever actuators	90° redirection			
VN A00LB € 1.64	VN A00LE € 1.60	VN A00LH € 1.61	VN A00LL € 2.39	VN AA200 ⊕ € 3.59	VN AA000-W5 ⊕ € 2.39			

**Installation for safety applications:**

To obtain a safety switch with positive opening, ⊕ only use housings and actuators which are marked with the symbol ⊕ for positive opening next to their article code ⊕.

Example:

VN A00KB ⊕ + VN AA200 ⊕ + NA B11000 ⊕

MK series

Screw terminals

Technopolymer housing

Versions with positive opening ☺

Marks: CE UL ENEC UK

Maximum protection degree IP40

Maximum protection degree IP65

Direct actuation

1NO+1NC, snap action

MK V11D01 € 3.39	MK V11D02 € 3.35	MK V11D03 € 3.93	MK V11D04 € 4.02	MK V11D05 € 3.74	MK V11D06 € 4.30	MK V11D08 € 4.82
MK V12D01 € 4.19	MK V12D02 € 4.15	MK V12D03 € 4.72	MK V12D04 € 4.82	MK V12D05 € 4.54	MK V12D06 € 5.10	MK V12D08 € 5.62

Direct actuation

1NO+1NC, snap action

Maximum protection degree IP40

Maximum protection degree IP65

MK V11D09 € 4.82	MK V11D10 € 4.80	MK V11D12 € 5.51	MK V11D13 € 6.38	MK V11D15 € 5.73	MK V11D17 € 5.73	MK V11D18 € 6.37
MK V12D09 € 5.62	MK V12D10 € 5.59	MK V12D12 € 6.32	MK V12D13 € 7.18	MK V12D15 € 6.53	MK V12D17 € 6.53	MK V12D18 € 7.16

Direct actuation

1NO+1NC, snap action

Maximum protection degree IP40

Maximum protection degree IP65

MK V11D19 € 6.37	MK V11D30 € 3.60	MK V11D31 € 3.68	MK V11D32 € 3.61	MK V11D35 € 3.85	MK V11D37 € 3.89	MK V11D40 € 3.99
MK V12D19 € 7.16	MK V12D30 € 4.41	MK V12D31 € 4.47	MK V12D32 € 4.42	MK V12D35 € 4.65	MK V12D37 € 4.69	MK V12D40 € 4.78

Direct actuation

1NO+1NC, snap action

Maximum protection degree IP40

Maximum protection degree IP65

MK V11D42 € 3.99	MK V11D45 € 3.89	MK V11D46 € 3.94	MK V11D47 € 4.58	MK V11D53 € 3.99	MK V11D59 € 3.87
MK V12D42 € 4.78	MK V12D45 € 4.69	MK V12D46 € 4.75	MK V12D47 € 5.37	MK V12D53 € 4.78	MK V12D59 € 4.67

Direct actuation at the back

1NO+1NC, snap action

Maximum protection degree IP40

Maximum protection degree IP65

MK V11F30 € 3.60	MK V11F31 € 3.68	MK V11F32 € 3.61	MK V11F35 € 3.85	MK V11F40 € 3.98	MK V11F42 € 3.99	MK V11F45 € 3.89
MK V12F30 € 4.41	MK V12F31 € 4.47	MK V12F32 € 4.42	MK V12F35 € 4.65	MK V12F40 € 4.78	MK V12F42 € 4.78	MK V12F45 € 4.69

Direct actuation at the back

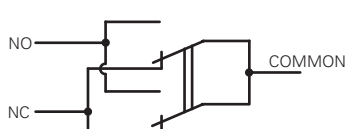
1NO+1NC, snap action

Maximum protection degree IP40

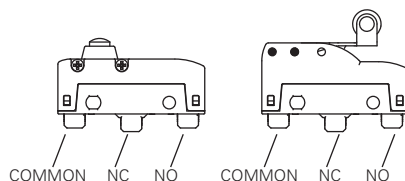
Maximum protection degree IP65

MK V11F46 € 3.94	MK V11F47 € 4.58	MK V11F49 € 3.52	MK V11F53 € 3.99	MK V11F59 € 3.87
MK V12F46 € 4.75	MK V12F47 € 5.37	MK V12F49 € 4.32	MK V12F53 € 4.78	MK V12F59 € 4.67

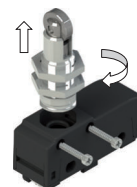
Circuit diagram



Mobile contact with single interruption and double contacts



Actuators with variable orientation



Thanks to our new lateral fixing system, the roller of the microswitches MK 15 and MK 17 can be now rotated in 90° steps.

Terminal types



V (example: MK V11D04)
Screw with self-lifting plate



H (example: MK H11D04)
Faston 6.3 mm, vertical

Protection degree

IP00 without terminal cover

IP20 (with terminal covers VF C01, VF C03)

IP40 (with terminal covers VF MKC1, VF C02)

IP65 (with terminal covers VF MKC22, VF MKC23)



MK series

Faston terminals

Technopolymer housing

Versions with positive opening

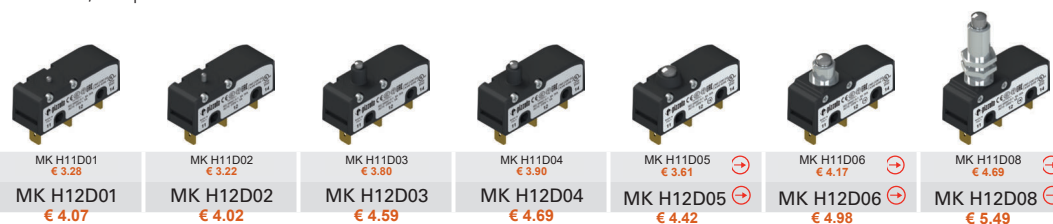
Marks:

Maximum protection degree IP40

Maximum protection degree IP65

Direct actuation

1NO+1NC, snap action



Direct actuation

1NO+1NC, snap action



Direct actuation

1NO+1NC, snap action



Direct actuation

1NO+1NC, snap action



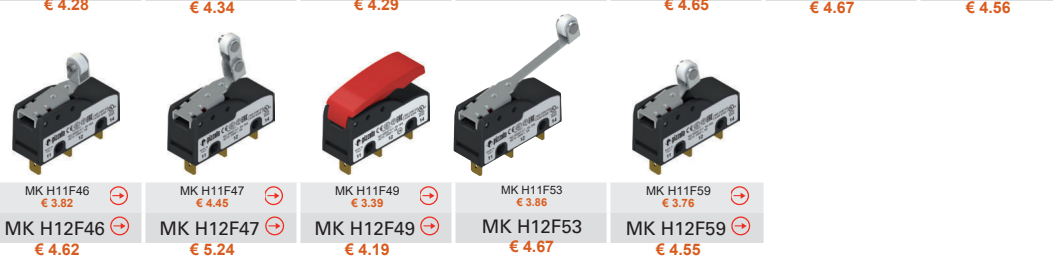
Direct actuation at the back

1NO+1NC, snap action



Direct actuation at the back

1NO+1NC, snap action



Protective terminal covers

Packs of 10 pcs. We only accept orders for complete packaging units.



Terminal cover for vertical faston terminals with strain relief cable gland and snap-in mounting. It allows installation of multiple switches side-by-side.



Terminal cover for screw terminals with strain relief cable gland and snap-in mounting. It allows installation of multiple switches side-by-side.

Article	Description	Prot. degree
VF MKCH11 € 0.48	Without gasket for cables Ø 5 ... 7.5 mm	IP40
VF MKCH12 € 0.52	Without gasket for cables Ø 4 ... 7.5 mm	IP40
VF MKCH13 € 0.59	Without gasket for cables Ø 2 ... 5 mm	IP40
VF MKCH22 € 0.95	With gasket for cables Ø 4 ... 7.5 mm	IP65
VF MKCH23 € 1.01	With gasket for cables Ø 2 ... 5 mm	IP65

Article	Description	Prot. degree
VF MKCV11 € 0.39	Without gasket for cables Ø 5 ... 7.5 mm	IP40
VF MKCV12 € 0.43	Without gasket for cables Ø 4 ... 7.5 mm	IP40
VF MKCV13 € 0.49	Without gasket for cables Ø 2 ... 5 mm	IP40
VF MKCV22 € 0.85	With gasket for cables Ø 4 ... 7.5 mm	IP65
VF MKCV23 € 0.92	With gasket for cables Ø 2 ... 5 mm	IP65



Protective terminal cover for screw terminals.
Protection degree IP20.



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



Protective terminal cover for screw terminals, snap-in mounting. It allows installation of multiple switches side-by-side.
Protection degree IP20.

Article	Description	Article	Description	Article	Description
VF C01 € 0.30	Protective terminal cover	VF C02 € 0.62	Protective terminal cover	VF C03 € 0.34	Protective terminal cover

MS series

Solder terminals

Technopolymer housing 

Marks:   

Maximum protection degree IP40

Direct actuation
1NO+1NC,
snap action



MS 05
€ 4.19

MS 08
€ 5.51

MS 09
€ 5.51

MS 10
€ 5.50

MS 15
€ 6.60

MS 17
€ 6.60

MS 20
€ 6.98

Direct actuation
1NO+1NC,
snap action



Maximum protection degree IP40

MS 30
€ 4.03

MS 40
€ 4.50

MS 42
€ 4.51

MS 45
€ 4.37

MS 49
€ 3.94

Inverted actuation
1NO+1NC,
snap action



Maximum protection degree IP40

MS 55
€ 4.51

MS 60
€ 4.59

MF series

Faston terminals

Technopolymer housing 

Marks:   

Maximum protection degree IP40

Direct actuation
1NO+1NC,
snap action



MF 05
€ 4.30

MF 08
€ 5.64

MF 09
€ 5.64

MF 10
€ 5.63

MF 15
€ 6.73

MF 17
€ 6.73

MF 20
€ 7.11

Direct actuation
1NO+1NC,
snap action



Maximum protection degree IP40

MF 30
€ 4.16

MF 40
€ 4.62

MF 42
€ 4.64

MF 45
€ 4.50

MF 49
€ 4.06

Inverted actuation
1NO+1NC,
snap action

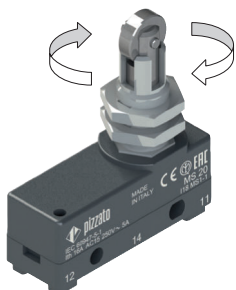


Maximum protection degree IP40

MF 55
€ 4.64

MF 60
€ 4.72

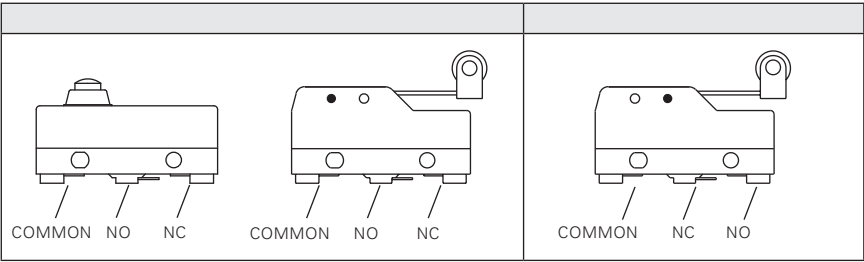
Orientable roller



It is possible to rotate the roller of the M 20 microswitch in 90° steps.



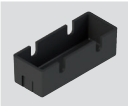
Circuit diagram



Change-over contact element with single interruption and three terminals.

Protective terminal covers

Packs of 10 pcs.



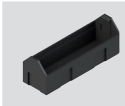
Protective terminal cover for screw terminals.
Protection degree IP20.

Article	Description
VF C01 € 0.30	Protective terminal cover



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

Article	Description
VF C02 € 0.62	Protective terminal cover



Protective terminal cover for screw terminals, snap-in mounting. It allows installation of multiple switches side-by-side.
Protection degree IP20.

Article	Description
VF C03 € 0.34	Protective terminal cover

PA, PX series

Technopolymer housing

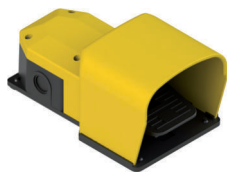
One M20x1.5 conduit entry

Two lateral knock-out conduit entries

Stainless steel external metallic parts

Protection degree IP53 or IP65

Contact block marks:



With M25 hole for VF KIT31

Snap action contacts 1NO+1NC	PX 10110-M2 € 21.23	PA 20100-M2 € 17.32	PX 10110-BM2 € 22.37
Snap action contacts 2NO+2NC	PX 10210-M2 € 25.13	PA 20200-M2 € 21.22	PX 10210-BM2 € 26.27
Slow action contacts 1NO+1NC	PX 10310-M2 € 20.79	PA 20300-M2 € 16.86	PX 10310-BM2 € 22.66

Code structure

Foot switches		article	options
PX	closed version	PX 10110	-AGM2
PA	open version	€ 21.37	

Contact block combinations	Protection colour
01 1NO+1NC, snap action	1 yellow RAL 1023 (standard)
02 2x(1NO+1NC), snap action	2 red RAL 3020
03 1NO+1NC, slow action	4 grey RAL 7040
04 2x(1NO+1NC), slow action	5 black RAL 9017
05 2x2NO, slow action	6 blue RAL 5017
06 2x2NC, slow action	
07 2NC, slow action	
08 2NO, slow action	
09 1NO+1NC, slow action, make before break	
14 2NO, snap action	
15 2NC, snap action	
20 2x(1NO+1NC), snap action, shifted	
24 (1NO+1NC)+(2NC), snap action, shifted	

Devices
0 no device
1 with safety lever
2 lock of the pedal actuator
3 without safety lever and with two-stage actuating force (only when combined with contact blocks 20-24)
4 with safety lever and with two-stage actuating force (only when combined with contact blocks 20-24)

Threaded conduit entry
M2 M20x1.5 (standard)
PG 13.5

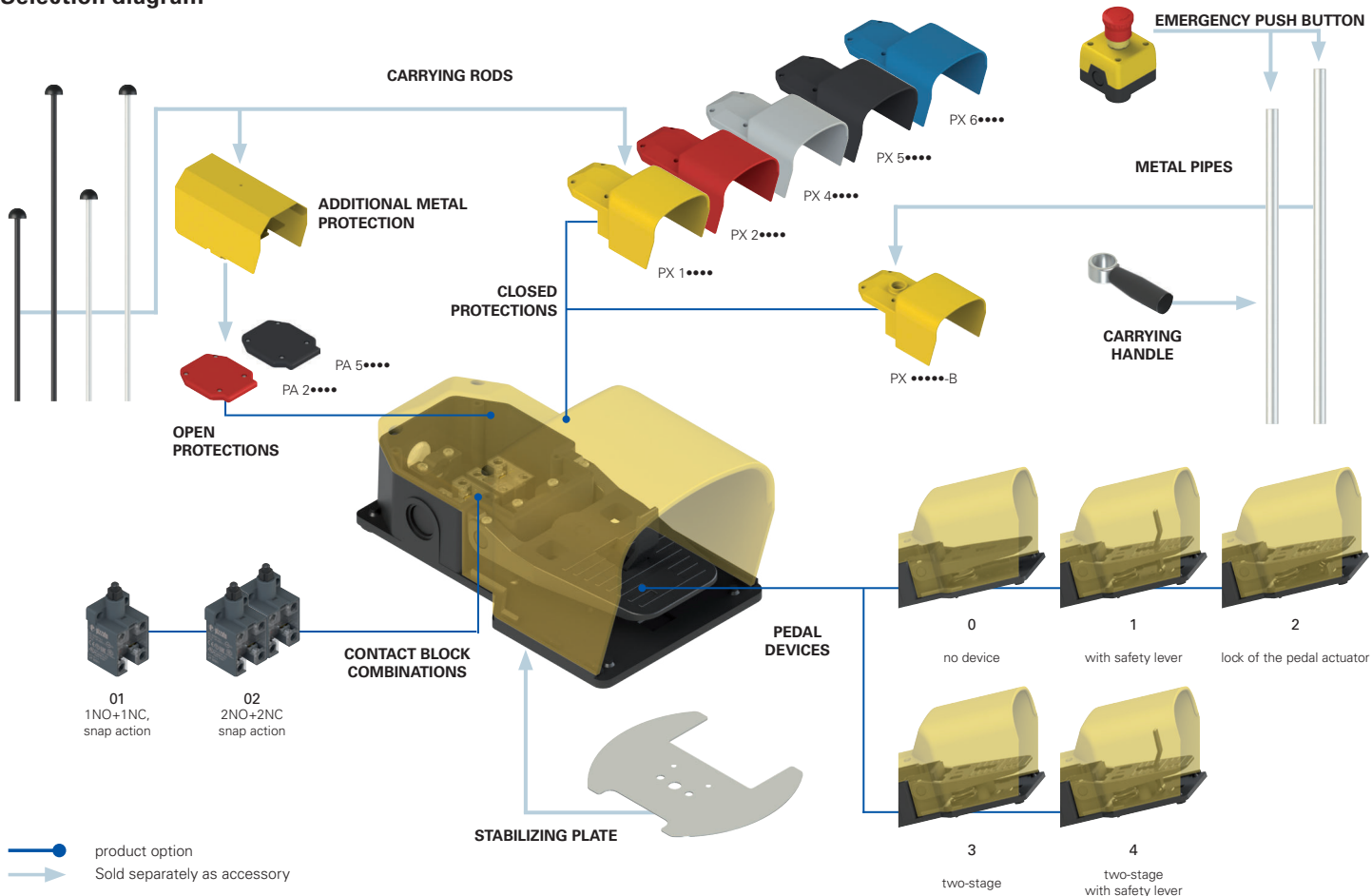
Contact type
silver contacts (standard)
G silver contacts with 1 µm gold coating
G1 silver contacts with 2.5 µm gold coating

Accessories (PX series only)
no accessories (standard)
A with technopolymer carrying rod (400 mm)
B with M25 hole for VF KIT31
C with M25 hole for VF KIT31 with stabilizing plate
D with technopolymer carrying rod (660 mm)

Protection degree
0 IP53
1 IP65

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

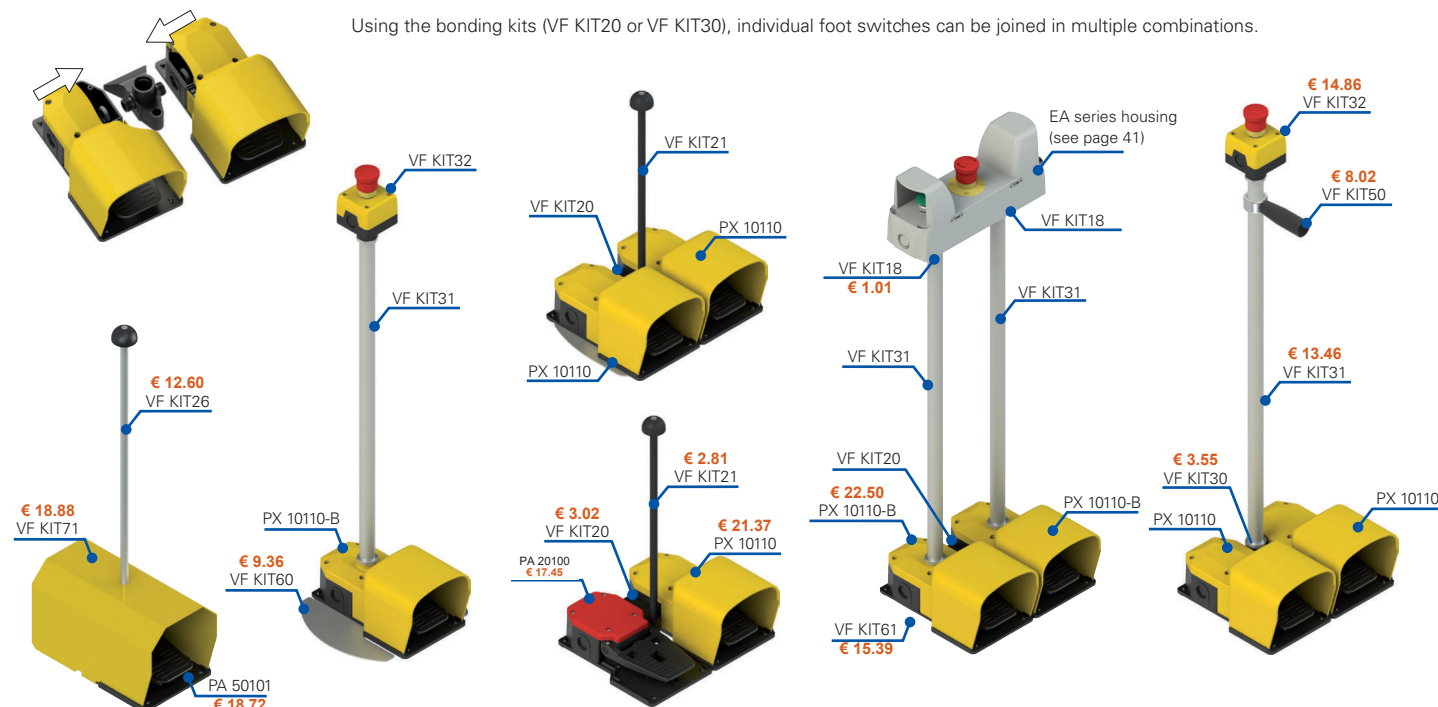
Selection diagram



Auxiliary elements for modular foot switches

Modular foot switches - PC series

Using the bonding kits (VF KIT20 or VF KIT30), individual foot switches can be joined in multiple combinations.

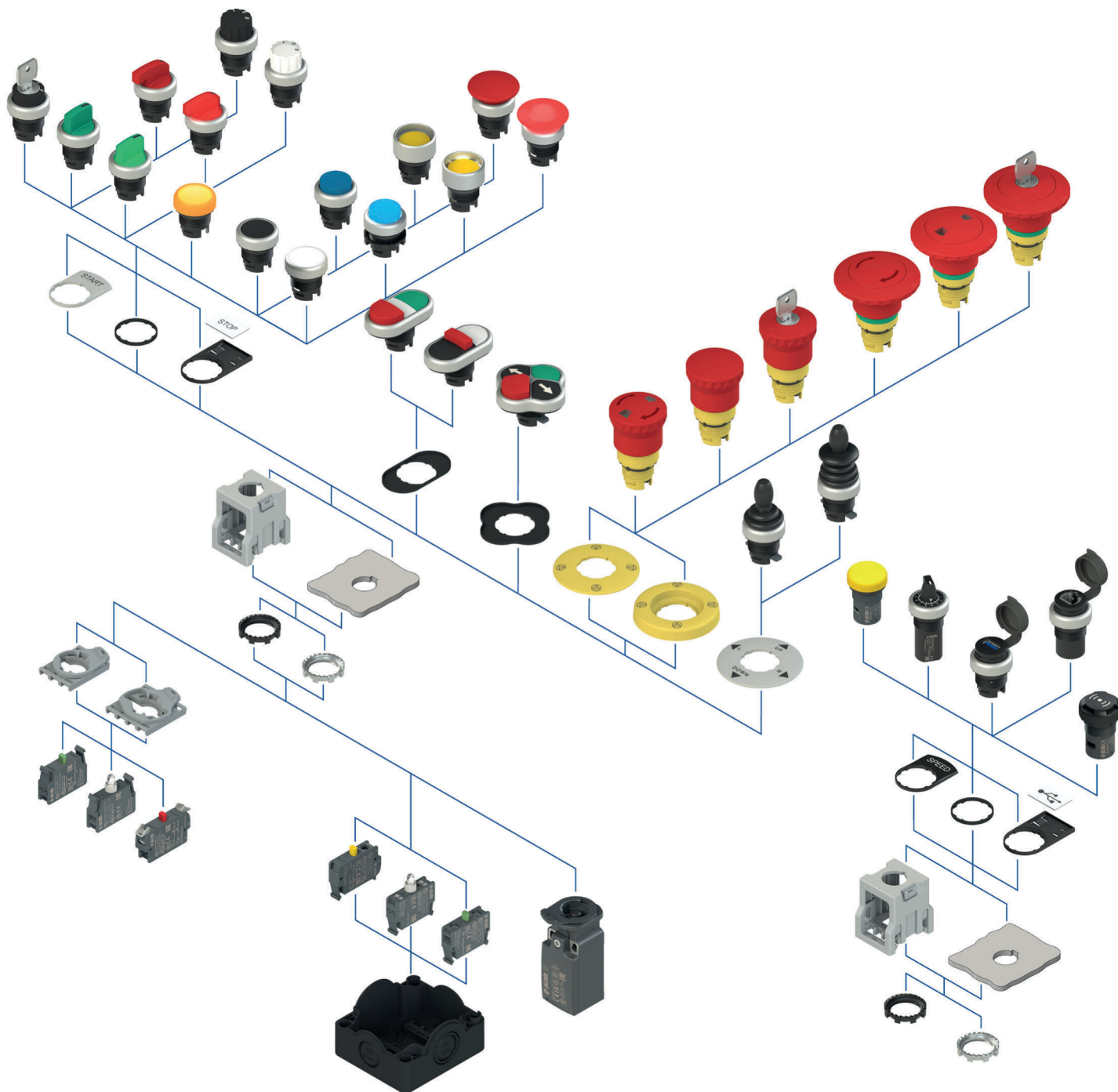


4 EROUND line introduction

Pizzato Elettrica's innovative EROUND control and signalling devices combine elegance and functionality in a single product.

The ergonomic design allows a comfortable and easy use of the devices. The details have been meticulously designed, making the products suitable for application even on machines with a sophisticated appearance.

The devices of the EROUND line, thanks to their design and functionality, guarantee maximum reliability, and are suitable for any type of application. Most devices, not only have an IP67 protection degree, but have also passed the test proving their IP69K protection degree according to the prescriptions established by the ISO 20653 standard.



Buttons
E2 PU series

Protection degrees IP67 and IP69K
 Ambient temperature: -25°C ... +80°C
 Marks:



Colour and engraving actuator	Spring-return button / satin chrome bezel			
	Flush	Projecting	Protected	Mushroom
without lens	E2 1PU2R0290 € 2.81	Same article, flush button	E2 1PU2P0290 € 4.13	-
black	E2 1PU2R1290 € 2.98	E2 1PU2S1290 € 3.60	E2 1PU2P1290 € 4.29	E2 1PU2F1490 € 4.25
white	E2 1PU2R2290 € 2.98	E2 1PU2S2290 € 3.60	E2 1PU2P2290 € 4.29	E2 1PU2F2490 € 4.25
red	E2 1PU2R3290 € 2.98	E2 1PU2S3290 € 3.60	E2 1PU2P3290 € 4.29	E2 1PU2F3490 € 4.25
green	E2 1PU2R4290 € 2.98	E2 1PU2S4290 € 3.60	E2 1PU2P4290 € 4.29	E2 1PU2F4490 € 4.25
yellow	E2 1PU2R5290 € 2.98	E2 1PU2S5290 € 3.60	E2 1PU2P5290 € 4.29	E2 1PU2F5490 € 4.25
blue	E2 1PU2R6290 € 2.98	E2 1PU2S6290 € 3.60	E2 1PU2P6290 € 4.29	E2 1PU2F6490 € 4.25
orange	E2 1PU2R8290 € 2.98	E2 1PU2S8290 € 3.60	E2 1PU2P8290 € 4.29	E2 1PU2F8490 € 4.25
red	E2 1PU2R329L1 € 3.28	E2 1PU2S329L1 € 3.91	-	E2 1PU2F349L1 € 4.56
green	E2 1PU2R429L2 € 3.28	E2 1PU2S429L2 € 3.91	E2 1PU2P429L2 € 4.60	E2 1PU2F449L2 € 4.56
black	E2 1PU2R129L1 € 3.28	E2 1PU2S129L1 € 3.91	-	E2 1PU2F149L1 € 4.56
white	E2 1PU2R229L2 € 3.28	E2 1PU2S229L2 € 3.91	E2 1PU2P229L2 € 4.60	E2 1PU2F249L2 € 4.56

Illuminated buttons
E2 PL series

Protection degrees IP67 and IP69K
 Ambient temperature: -25°C ... +80°C
 Marks:



Colour and engraving actuator	Spring-return button / satin chrome bezel			
	Flush	Projecting	Protected	Mushroom
without lens	E2 1PL2R0290 € 3.19	Same article, flush button	E2 1PL2P0290 € 4.45	-
white	E2 1PL2R2290 € 3.41	E2 1PL2S2290 € 4.00	E2 1PL2P2290 € 4.67	E2 1PL2F2490 € 4.63
red	E2 1PL2R3290 € 3.41	E2 1PL2S3290 € 4.00	E2 1PL2P3290 € 4.67	E2 1PL2F3490 € 4.63
green	E2 1PL2R4290 € 3.41	E2 1PL2S4290 € 4.00	E2 1PL2P4290 € 4.67	E2 1PL2F4490 € 4.63
yellow	E2 1PL2R5290 € 3.41	E2 1PL2S5290 € 4.00	E2 1PL2P5290 € 4.67	E2 1PL2F5490 € 4.63
blue	E2 1PL2R6290 € 3.41	E2 1PL2S6290 € 4.00	E2 1PL2P6290 € 4.67	E2 1PL2F6490 € 4.63
orange	E2 1PL2R8290 € 3.41	E2 1PL2S8290 € 4.00	E2 1PL2P8290 € 4.67	E2 1PL2F8490 € 4.63
red	E2 1PL2R329L1 € 3.69	E2 1PL2S329L1 € 4.29	-	E2 1PL2F349L1 € 4.93
green	E2 1PL2R429L2 € 3.69	E2 1PL2S429L2 € 4.29	E2 1PL2P429L2 € 4.97	E2 1PL2F449L2 € 4.93
white	E2 1PL2R229L1 € 3.69	E2 1PL2S229L1 € 4.29	-	E2 1PL2F249L1 € 4.93
white	E2 1PL2R229L2 € 3.69	E2 1PL2S229L2 € 4.29	E2 1PL2P229L2 € 4.97	E2 1PL2F249L2 € 4.93

For ordering a maintained button replace 1PU2 with 1PU1 in the respective article code. Example: E2 1PU2R0210 → E2 1PU1R0210

For ordering a button with black bezel replace 9 with 1 in the respective article code. Example: E2 1PU2R0290 → E2 1PU1R0210

Please contact our technical department for buttons with custom markings.

Maintained button Spring-return button

Double/triple buttons
E2 PD/PT series

Protection degrees IP67 and IP69K
 Ambient temperature: -25°C ... +80°C
 Marks:



Colour and engraving actuator	Spring-return button / satin chrome bezel	
	Upper button flush Central cap, flush Lower button flush	Upper button flush Central cap, flush Lower button projecting
green button	E2 1PDRL90423 € 4.50	E2 1PDSL90423 € 4.80
white cap, illuminated red button	E2 1PDRL9AAAD € 5.12	E2 1PDSL9AAAD € 5.42
white cap, illuminated "O" red button	E2 1PDRL9AAAP € 5.12	E2 1PDSL9AAAP € 5.42
white cap, illuminated "STOP" red button	E2 1PDRL90221 € 4.50	E2 1PDSL90221 € 4.80
white cap, illuminated black button	E2 1PDRL9AAAA € 5.12	E2 1PDSL9AAAA € 5.42
white cap, illuminated "O" black button	E2 1PDRL9AAAN € 5.12	E2 1PDSL9AAAN € 5.42
white cap, illuminated "STOP" black button	E2 1PDRL9AAAB € 5.12	E2 1PDSL9AAAB € 5.42

Colour and engraving actuator	Spring-return button satin chrome bezel	
	Upper button flush Central button projecting Lower button flush	
"I" green button	E2 1PTRS9AAAY € 7.18	
"II" green button	E2 1PTRS9AAAZ € 7.18	
"STOP" green button	E2 1PTRS9AABD € 7.18	
"STOP" red button	E2 1PTRS9AABA € 7.18	
"STOP" black button	E2 1PTRS9AABE € 7.18	
"STOP" white button	E2 1PTRS9AABF € 7.18	
"STOP" black button	E2 1PTRS9AABB € 7.18	

Quadruple buttons
E2 PQ series

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



Colour and engraving actuator (starting from the top and clockwise)	Spring-return button satin chrome bezel	
	Upper button flush Right button flush Lower button flush Left button flush	
"black button"	E2 1PQFA9QAAA € 27.08	
"black button"	E2 1PQFA9QAAB € 27.08	
"black button"	E2 1PQFA9QAAC € 27.08	
"black button"	E2 1PQFA9QAAD € 27.08	
"black button"	E2 1PQFA9QAAE € 27.08	

For ordering a button with black bezel replace 9 with 1 in the respective article code. Example: E2 1PDRL90423 → E2 1PDRL10423

Please contact our technical department for buttons with custom markings.

4D Selector switches

E2 SE series selector switches with 2 or 3 positions

Protection degrees IP67 and IP69K
Ambient temperature: -25°C ... +80°C
Marks:      



Positions	Satin chrome bezel						
	black	white	red	green	yellow	blue	orange
	E2 1SE12AVA19AB € 4.63	E2 1SE12AVA29AB € 4.63	E2 1SE12AVA39AB € 4.63	E2 1SE12AVA49AB € 4.63	E2 1SE12AVA59AB € 4.63	E2 1SE12AVA69AB € 4.63	E2 1SE12AVA89AB € 4.63
	E2 1SE12EVA19AB € 5.04	E2 1SE12EVA29AB € 5.04	E2 1SE12EVA39AB € 5.04	E2 1SE12EVA49AB € 5.04	E2 1SE12EVA59AB € 5.04	E2 1SE12EVA69AB € 5.04	E2 1SE12EVA89AB € 5.04
	E2 1SE13ACE19AB € 4.63	E2 1SE13ACE29AB € 4.63	E2 1SE13ACE39AB € 4.63	E2 1SE13ACE49AB € 4.63	E2 1SE13ACE59AB € 4.63	E2 1SE13ACE69AB € 4.63	E2 1SE13ACE89AB € 4.63
	E2 1SE13ECE19AB € 5.04	E2 1SE13ECE29AB € 5.04	E2 1SE13ECE39AB € 5.04	E2 1SE13ECE49AB € 5.04	E2 1SE13ECE59AB € 5.04	E2 1SE13ECE69AB € 5.04	E2 1SE13ECE89AB € 5.04
	E2 1SE13FCE19AB € 5.04	E2 1SE13FCE29AB € 5.04	E2 1SE13FCE39AB € 5.04	E2 1SE13FCE49AB € 5.04	E2 1SE13FCE59AB € 5.04	E2 1SE13FCE69AB € 5.04	E2 1SE13FCE89AB € 5.04
	E2 1SE13GCE19AB € 5.47	E2 1SE13GCE29AB € 5.47	E2 1SE13GCE39AB € 5.47	E2 1SE13GCE49AB € 5.47	E2 1SE13GCE59AB € 5.47	E2 1SE13GCE69AB € 5.47	E2 1SE13GCE89AB € 5.47

For ordering a selector switch with black bezel replace 9 with 1 in the respective article code. Example: E2 1SE12AVA39AB → E2 1SE12AVA31AB
For ordering a knob selector switch replace 1 with 4 in the respective article code. Example: E2 1SE12AVA39AB → E2 1SE42AVA39AB
For ordering a selector switch with long handle replace 1 with 2 in the respective article code. Example: E2 1SE12AVA39AB → E2 1SE22AVA39AB



Illuminated selector switches with 2 or 3 positions E2 SL series

Protection degrees IP67 and IP69K
Ambient temperature: -25°C ... +80°C
Marks:      



Positions	Satin chrome bezel					
	white	red	green	yellow	blue	orange
	E2 1SL12AVD29AB € 5.29	E2 1SL12AVD39AB € 5.29	E2 1SL12AVD49AB € 5.29	E2 1SL12AVD59AB € 5.29	E2 1SL12AVD69AB € 5.29	E2 1SL12AVD89AB € 5.29
	E2 1SL12EVD29AB € 5.69	E2 1SL12EVD39AB € 5.69	E2 1SL12EVD49AB € 5.69	E2 1SL12EVD59AB € 5.69	E2 1SL12EVD69AB € 5.69	E2 1SL12EVD89AB € 5.69
	E2 1SL13ACH29AB € 5.29	E2 1SL13ACH39AB € 5.29	E2 1SL13ACH49AB € 5.29	E2 1SL13ACH59AB € 5.29	E2 1SL13ACH69AB € 5.29	E2 1SL13ACH89AB € 5.29
	E2 1SL13ECH29AB € 5.69	E2 1SL13ECH39AB € 5.69	E2 1SL13ECH49AB € 5.69	E2 1SL13ECH59AB € 5.69	E2 1SL13ECH69AB € 5.69	E2 1SL13ECH89AB € 5.69
	E2 1SL13FCH29AB € 5.69	E2 1SL13FCH39AB € 5.69	E2 1SL13FCH49AB € 5.69	E2 1SL13FCH59AB € 5.69	E2 1SL13FCH69AB € 5.69	E2 1SL13FCH89AB € 5.69
	E2 1SL13GCH29AB € 6.10	E2 1SL13GCH39AB € 6.10	E2 1SL13GCH49AB € 6.10	E2 1SL13GCH59AB € 6.10	E2 1SL13GCH69AB € 6.10	E2 1SL13GCH89AB € 6.10

For ordering a selector switch with black bezel replace 9 with 1 in the respective article code. Example: E2 1SL12AVD39AB → E2 1SL12AVD31AB
For ordering a knob selector switch replace 1 with 4 in the respective article code. Example: E2 1SL12AVD39AB → E2 1SL42AVD39AB
For ordering a selector switch with long handle replace 1 with 2 in the respective article code. Example: E2 1SL12AVD39AB → E2 1SL22AVD39AB



E2 AC series complete units with 4-position selector switches

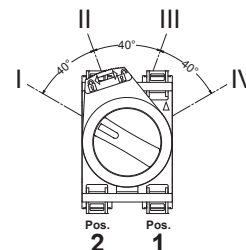
Protection degrees IP67 and IP69K
Ambient temperature: -25°C ... +80°C
Marks:      



Contact diagram

contacts		Selector position			
		I	II	III	IV
pos. 1					
pos. 2					
pos. 3					

■ closed contact □ open contact



Colour and engraving actuator	Selector switches					Illuminated selector switches				
	Contacts			Positions	Satin chrome bezel	Contacts			Satin chrome bezel	
	pos. 2	pos. 3	pos. 1			pos. 2	pos. 3	pos. 1		
	1NO+1NC	-	1NO+1NC		E2 AC-DXBC2203 € 21.37	-	-	-	-	
	1NO+1NC	-	1NO+1NC		E2 AC-DXBC2211 € 21.37	1NO+1NC	LED	1NO+1NC	E2 AC-DXBC2259 € 21.35	
	1NO+1NC	-	1NO+1NC		E2 AC-DXBC2219 € 21.37	1NO+1NC	LED	1NO+1NC	E2 AC-DXBC2267 € 21.35	
	1NO+1NC	-	1NO+1NC		E2 AC-DXBC2227 € 21.37	1NO+1NC	LED	1NO+1NC	E2 AC-DXBC2275 € 21.35	
	1NO+1NC	-	1NO+1NC		E2 AC-DXBC2235 € 21.37	1NO+1NC	LED	1NO+1NC	E2 AC-DXBC2283 € 21.35	
	1NO+1NC	-	1NO+1NC		E2 AC-DXBC2243 € 21.37	1NO+1NC	LED	1NO+1NC	E2 AC-DXBC2291 € 21.35	
	1NO+1NC	-	1NO+1NC		E2 AC-DXBC2251 € 21.37	1NO+1NC	LED	1NO+1NC	E2 AC-DXBC2299 € 21.35	

On request, selector switches can be customized with a knob or a long handle.
On request, knob selector switches can be customized with symbols and inscriptions.
Note: The LED supplied with the illuminated selector switch has a supply voltage of 12 ... 30 Vac/dc. Other voltages on request.

**4D**

Key selector switches E2 SC series

Protection degrees IP67 and IP69K
Ambient temperature: -25°C ... +80°C
Marks:

Legend

- Maintained
- Spring-return
- Key extraction position



Actuator colour and engraving	Positions	3 positions
		Satin chrome bezel
		E2 1SC3ACE19AA € 10.22
		E2 1SC3BCE19AA € 10.22
		E2 1SC3CCE19AA € 10.22
		E2 1SC3DCE19AA € 10.22
		E2 1SC3ECE19AA € 10.65
		E2 1SC3FCE19AA € 10.65
		E2 1SC3GCE19AA € 11.08

Actuator colour and engraving	Positions	3 positions
		Satin chrome bezel
		E2 1SC3HCE19AA € 10.65
		E2 1SC3LCE19AA € 10.65
		E2 1SC3MCE19AA € 10.22
		E2 1SC3NCE19AA € 10.22
		E2 1SC3PCE19AA € 10.22
		E2 1SC3QCE19AA € 10.65
		E2 1SC3RCE19AA € 10.65

Actuator colour and engraving	Positions	2 positions
		Satin chrome bezel
		E2 1SC2AVA19AA € 10.22
		E2 1SC2BVA19AA € 10.22
		E2 1SC2CVA19AA € 10.22
		E2 1SC2DVA19AA € 10.65
		E2 1SC2ACA19AA € 10.22
		E2 1SC2BCA19AA € 10.22
		E2 1SC2DCA19AA € 10.65

For ordering a selector switch with black bezel replace 9 with 1 in the respective article code. Example:
E2 1SC2AVA19AA → E2 1SC2AVA11AA

The standard colour of the selectors with the codes shown on the side is **BLACK**. Other colours on request. Key selectors switches can be customized with symbols and inscriptions on request. All keys of the selector switches have the PY333 key coding. Other codes on request.

Emergency stop buttons

4E

Emergency stop buttons E2 PE series

Protection degrees IP67 and IP69K
Ambient temperature: -25°C ... +80°C
Marks:



Body and actuator colour	Push-pull		Rotary release		Windowed push-pull		Windowed rotary release		Key release, key coding 333	
	Ø40 mm	Ø60 mm	Ø40 mm	Ø60 mm	Ø40 mm	Ø60 mm	Ø40 mm	Ø60 mm	Ø40 mm	Ø60 mm
Red mushroom Yellow body	E2 1PEPZ4531 € 5.62	E2 1PEPZ6531 € 6.49	E2 1PERZ4531 € 5.88	E2 1PERZ6531	E2 1PEPF4531 € 7.16	E2 1PEPF6531 € 8.02	E2 1PERF4531 € 7.42	E2 1PERF6531	E2 1PEBZ4531 € 15.29	E2 1PEBZ6531 € 16.15
Red mushroom Yellow body with green indication	E2 1PEPZ4731 € 6.02	E2 1PEPZ6731 € 6.88	E2 1PERZ4731 € 6.27	E2 1PERZ6731	E2 1PEPF4731 € 7.55	E2 1PEPF6731	E2 1PERF4731 € 7.81	E2 1PERF6731 € 8.67	E2 1PEBZ4731 € 15.68	E2 1PEBZ6731 € 16.54
Black mushroom Yellow body	E2 1PEPZ4511 € 5.19		E2 1PERZ4511 € 5.02		-		-		E2 1PEBZ4511 € 13.47	
Yellow mushroom Yellow body	E2 1PEPZ4551 € 5.62		E2 1PERZ4551 € 5.88		-		-		-	

Labels with shaped hole

Packs of 5 pcs.

		Acc. to ISO 13850		Acc. to ISO 13850		Acc. to ISO 13850		Acc. to ISO 13850		Acc. to ISO 13850	
Ø 60 mm	VE TF32A5700	VE TF32A5101	VE TF32A5102	VE TF32A5109	VE TF32A5120	VE TF32A5113	VE TF32G5700	VE TF32G5103	VE TF32G5110	VE TF32G5121	€ 1.47
Ø 90 mm	VE TF32D5700	VE TF32D5101	VE TF32D5102	VE TF32D5109	VE TF32D5120	VE TF32D5113					

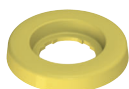
Luminous discs

4F

Luminous discs VE DL series

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

Yellow luminous disc, Ø 60 mm,
without engraving.
Acc. to ISO 13850.



Yellow luminous disc, Ø 60 mm,
with engraving:
Acc. to ISO 13850.



Yellow luminous disc, Ø 60 mm,
with engraving: STOP STOP STOP STOP



Operating voltage	12 Vac/dc	24 Vac/dc	12 Vac/dc	24 Vac/dc	12 Vac/dc	24 Vac/dc
Continuous light	VE DL5A5A00 € 15.56	VE DL1A5A00 € 14.79	VE DL5A5A13 € 15.90	VE DL1A5A13 € 15.13	VE DL5A5A09 € 15.90	VE DL1A5A09 € 15.13
Blinking light	VE DL5A5L00 € 17.10	VE DL1A5L00 € 16.33	VE DL5A5L13 € 17.43	VE DL1A5L13 € 16.67	VE DL5A5L09 € 17.43	VE DL1A5L09 € 16.67
Dual function	VE DL5A5D00	VE DL1A5D00 € 17.86	VE DL5A5D13	VE DL1A5D13 € 18.20	VE DL5A5D09	VE DL1A5D09 € 18.20

4G Indicator lights

Indicator lights E2 IL series

Protection degrees IP67 and IP69K
Ambient temperature: -25°C ... +70°C
Marks:     

					
					
white	red	green	yellow	blue	orange
E2 1ILA210	E2 1ILA310	E2 1ILA410	E2 1ILA510	E2 1ILA610	E2 1ILA810
€ 1.60	€ 1.60	€ 1.60	€ 1.60	€ 1.60	€ 1.60

Monolithic indicator lights E6 IL series

Protection degree IP67
Ambient temperature: -40°C ... +70°C
Marks:     

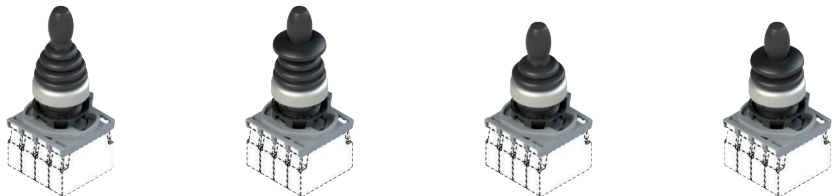
						
Operating voltage						
	white	red	green	yellow	blue	orange
12..30 Vac/dc	E6 1IL1A2110 € 4.15	E6 1IL1A3110 € 4.15	E6 1IL1A4110 € 4.15	E6 1IL1A5110 € 4.15	E6 1IL1A6110 € 4.15	E6 1IL1A8110 € 4.15
120 Vac	E6 1IL3A2110 € 6.14	E6 1IL3A3110 € 6.14	E6 1IL3A4110 € 6.14	E6 1IL3A5110 € 6.14	E6 1IL3A6110 € 6.14	E6 1IL3A8110 € 6.14
230 Vac	E6 1IL4A2110 € 6.14	E6 1IL4A3110 € 6.14	E6 1IL4A4110 € 6.14	E6 1IL4A5110 € 6.14	E6 1IL4A6110 € 6.14	E6 1IL4A8110 € 6.14

4H Joysticks

Joysticks with contacts E2 MA series

Protection degrees IP67 and IP69K
Ambient temperature: -40°C ... +80°C
Marks:     

Legend:
● maintained actuation
▶ spring-return actuation



Functions		Contacts				Standard height (55 mm) without lock	Standard height (55 mm) with lock	Reduced height (45 mm) without lock	Reduced height (45 mm) with lock
		pos. 3	pos. 2	pos. 4	pos. 1	Satin chrome bezel	Satin chrome bezel	Satin chrome bezel	Satin chrome bezel
	UP spring-return, RIGHT spring-return, DOWN spring-return, LEFT spring-return	1NO	1NO	1NO	1NO	E2 AC-DXBC2602 € 34.79	E2 AC-DXBC2604 € 40.53	E2 AC-DXBC2603 € 34.79	E2 AC-DXBC2605 € 40.53
	LEFT spring-return, RIGHT spring-return	1NO			1NO	E2 AC-DXBC2601 € 29.33	E2 AC-DXBC2613 € 35.07	E2 AC-DXBC2618 € 29.33	E2 AC-DXBC2622 € 35.07
	UP spring-return, DOWN spring-return		1NO	1NO		E2 AC-DXBC2600 € 29.33	E2 AC-DXBC2611 € 35.07	E2 AC-DXBC2616 € 29.33	E2 AC-DXBC2620 € 35.07
	UP maintained, RIGHT maintained, DOWN maintained, LEFT maintained	1NO	1NO	1NO	1NO	E2 AC-DXBC2608 € 34.79	E2 AC-DXBC2614 € 40.53	E2 AC-DXBC2609 € 34.79	E2 AC-DXBC2623 € 40.53
	LEFT maintained, RIGHT maintained	1NO			1NO	E2 AC-DXBC2607 € 29.33	E2 AC-DXBC2612 € 35.07	E2 AC-DXBC2617 € 29.33	E2 AC-DXBC2621 € 35.07
	UP maintained, DOWN maintained		1NO	1NO		E2 AC-DXBC2606 € 29.33	E2 AC-DXBC2610 € 35.07	E2 AC-DXBC2615 € 29.33	E2 AC-DXBC2619 € 35.07

Round labels with shaped hole				Rectangular labels with shaped hole					
									
VE TF32A9130	VE TF12A1230	VE TF32A9133	VE TF12A1233	VE TF32G9131	VE TF12G1231	VE TF32G9134	VE TF12G1234	VE TF32G9132	VE TF12G1232



USB Type-A sockets
E2 USB series

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

For ordering a socket with black bezel replace 9 with 1 in the respective article code. Example:
E2 1USB9CAK → E2 1USB1CAK

For ordering a USB 3.0 socket replace C with A in the respective article code. Example:
E2 1USB9CAK → E2 1USB1AAK



Rear connection	Front connection Integrated USB 2.0 Type-A female connector
integrated USB Type-A socket	E2 1USB9CAK € 15.09
Output with PVC cable, length 0.8 m and USB Type-A male connector	E2 1USB9CN0.8 € 15.90
Output with PVC cable, length 1.8 m and USB Type-A male connector	E2 1USB9CN1.8 € 16.69
Output with PVC cable, length 3 m and USB Type-A male connector	E2 1USB9CN3 € 19.08
Output with PVC cable, length 5 m and USB Type-A male connector (available only with USB 2.0 socket)	E2 1USB9CN5 € 21.48

USB Type-C sockets
E2 USB series

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

NEW

For ordering a socket with black bezel replace 9 with 1 in the respective article code. Example:
E2 1USB9EH0.8 → E2 1USB1EH0.8



Rear connection	Front connection Integrated USB 3.1 Type-C female connector
Output with PVC cable (length 0.8 m) and USB Type-C male connector	E2 1USB9EH0.8 € 26.60
Output with PVC cable (length 1.8 m) and USB Type-C male connector	E2 1USB9EH1.8 € 30.38

RJ45 sockets
E2 RJ45 series

Protection degree IP67
Ambient temperature: -25°C ... +70°C
Speed up to 10 Gb/s for Cat. 6
Marks:    

For ordering a socket with black bezel replace 9 with 1 in the respective article code. Example:
E2 1RJ459AAK → E2 1RJ451AAK



Connection type	Transfer speeds	
	1 Gb/s (for Cat. 5e)	10 Gb/s (for Cat. 6)
Integrated RJ45 socket	E2 1RJ459AAK € 17.24	E2 1RJ459CAK € 18.98
Output with PVC cable (length 1 m) and RJ45 male connector	E2 1RJ459AN1 € 16.98	E2 1RJ459CN1 € 18.72
Output with PVC cable (length 1.5 m) and RJ45 male connector	E2 1RJ459AN1.5 € 17.19	E2 1RJ459CN1.5 € 18.93
Output with PVC cable (length 2.5 m) and RJ45 male connector	E2 1RJ459AN2.5 € 17.82	E2 1RJ459CN2.5 € 19.58

Potentiometers

Potentiometers
E6 DM series

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

Potentiometer 1 W

Potentiometer 0.5 W Packs of 50 pcs.



For ordering a potentiometer with black bezel replace 9 with 1 in the respective article code. Example:
E6 1DM001K-D119 → E6 1DM001K-D111

For ordering a potentiometer with black bezel replace 9 with 1 in the respective article code. Example:
E6 1DM001K-D319 → E6 1DM001K-D311

Resistance	Max power	Article
1 kΩ	1 W	E6 1DM001K-D119 € 27.03
2.2 kΩ	1 W	E6 1DM02K2-D119 € 27.03
4.7 kΩ	1 W	E6 1DM04K7-D119 € 27.03
10 kΩ	1 W	E6 1DM010K-D119 € 27.03
22 kΩ	1 W	E6 1DM022K-D119 € 27.03
47 kΩ	1 W	E6 1DM047K-D119 € 27.03
100 kΩ	0.9 W	E6 1DM100K-D119 € 27.03
470 kΩ	0.23 W	E6 1DM470K-D119 € 27.03

Resistance	Max power	Article
1 kΩ	0.5 W	E6 1DM001K-D319 € 15.93
2.2 kΩ	0.5 W	E6 1DM02K2-D319 € 15.93
4.7 kΩ	0.5 W	E6 1DM04K7-D319 € 15.93
10 kΩ	0.5 W	E6 1DM010K-D319 € 15.93
22 kΩ	0.5 W	E6 1DM022K-D319 € 15.93
47 kΩ	0.5 W	E6 1DM047K-D319 € 15.93

**Buzzers
E6 IS series**

Protection degree: IP40 (perforated lens)
IP67 (perforation-free lens)
Ambient temperature: -20°C ... +70°C
Marks:    



Sound type	Supply voltage	Perforated lens	dB	Perforation-free lens	dB
Continuous 	12 Vac/dc	E6 1IS5A1CV1B € 10.50	90	E6 1IS5B1CV1B € 11.27	75
	24 Vac/dc	E6 1IS6A1CV1B € 10.50	95	E6 1IS6B1CV1B € 11.27	80
Pulsed 	12 Vac/dc	E6 1IS5A1PV1B € 10.50	90	E6 1IS5B1PV1B € 11.27	75
	24 Vac/dc	E6 1IS6A1PV1B € 10.50	95	E6 1IS6B1PV1B € 11.27	80

4L

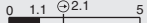
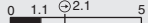
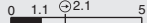
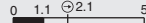
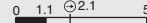
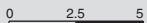
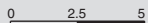
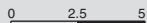
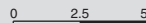
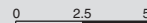
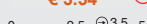
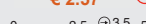
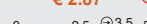
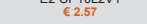
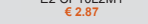
Single contact blocks

**E2 CP/CF series
single contact blocks**

Protection degree IP20
(Solder connection — IP00)
Ambient temperature: -40°C ... +80°C

Positive opening contacts acc. to IEC 60947-5-1
Marks:    

Packs of **10 pcs.**

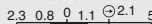
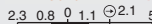
Contact block	Panel mounting			Base mounting	
	Screw connection	PUSH-IN spring-operated connection	Solder connection	Screw connection	PUSH-IN spring-operated connection
1NC, slow action	E2 CP01G2V1 € 2.08 	E2 CP01G2M1 € 2.38 	E2 CP01G2S0 € 3.04 	E2 CF01G2V1 € 2.08 	E2 CF01G2M1 € 2.38 
1NO, slow action	E2 CP10G2V1 € 2.08 	E2 CP10G2M1 € 2.38 	E2 CP10G2S0 € 3.04 	E2 CF10G2V1 € 2.08 	E2 CF10G2M1 € 2.38 
1NC, slow action, delayed	E2 CP01K2V1 € 2.57 	E2 CP01K2M1 € 2.87 	E2 CP01K2S0 € 3.54 	E2 CF01K2V1 € 2.57 	E2 CF01K2M1 € 2.87 
1NO, slow action, early make	E2 CP10L2V1 € 2.57 	E2 CP10L2M1 € 2.87 	E2 CP10L2S0 € 3.54 	E2 CF10L2V1 € 2.57 	E2 CF10L2M1 € 2.87 

**E2 CP/CF series
single self-monitored con-
tact blocks**

Protection degree IP20
Ambient temperature: -40°C ... +80°C

Positive opening contacts acc. to IEC 60947-5-1
Marks:    

Packs of **5 pcs.**

Contact block	Panel mounting Screw connection	Contact block	Base mounting in position 3 Screw connection
Slow action contacts 1NC self-monitored	E2 CP01S2V1 € 6.10 	Slow action contacts 1NC self-monitored	E2 CF01S2V1 € 6.10 

Note: Ideal in safety applications combined with emergency stop buttons E2•PE•••••, they automatically detect any detachment of the contact block from the emergency stop button.

Double contact blocks



4M

E2 CP/CF series
double contact blocks

Protection degree IP20
Ambient temperature: -40°C ... +80°C

Positive opening contacts acc. to IEC 60947-5-1
Marks:

Packs of 5 pcs.



Contact block	Panel mounting Screw connection
Slow action contacts 1NO+1NC	 E2 CP11G2V1 € 4.71
Slow action contacts 2NO	 E2 CP20G2V1 € 4.71
Slow action contacts 2NC	 E2 CP02G2V1 € 4.71

Contact block	Panel mounting Screw connection
Slow action contacts 1NO+1NC	 E2 CF11G2V1 € 4.71
Slow action contacts 2NO	 E2 CF20G2V1 € 4.71
Slow action contacts 2NC	 E2 CF02G2V1 € 4.71

LED units

4N

E2 LP/LF series
LED units

Protection degree IP20
(Solder connection — IP00)
Three supply voltages:
12 ... 30 Vac/dc, 120 Vac, 230 Vac

Ambient temperature: -25°C ... +70°C
Marks:

Packs of 5 pcs.



LED colour	Available device colour	Panel mounting								
		Screw connection			PUSH-IN spring-operated connection			Solder connection		
		Operating voltage								
		12 ... 30 Vac/dc	120 Vac	230 Vac	12 ... 30 Vac/dc	120 Vac	230 Vac	12 ... 30 Vac/dc	120 Vac	230 Vac
 white	white / yellow	E2 LP1A2V1 € 4.11	E2 LP3A2V1 € 6.32	E2 LP4A2V1 € 6.32	E2 LP1A2M1 € 4.42	E2 LP3A2M1 € 6.62	E2 LP4A2M1 € 6.62	E2 LP1A2S0 € 4.88	E2 LP3A2S0 € 7.07	E2 LP4A2S0 € 7.07
 red	red	E2 LP1A3V1 € 4.11	E2 LP3A3V1 € 6.32	E2 LP4A3V1 € 6.32	E2 LP1A3M1 € 4.42	E2 LP3A3M1 € 6.62	E2 LP4A3M1 € 6.62	E2 LP1A3S0 € 4.88	E2 LP3A3S0 € 7.07	E2 LP4A3S0 € 7.07
 green	green	E2 LP1A4V1 € 4.11	E2 LP3A4V1 € 6.32	E2 LP4A4V1 € 6.32	E2 LP1A4M1 € 4.42	E2 LP3A4M1 € 6.62	E2 LP4A4M1 € 6.62	E2 LP1A4S0 € 4.88	E2 LP3A4S0 € 7.07	E2 LP4A4S0 € 7.07
 blue	blue	E2 LP1A6V1 € 4.11	E2 LP3A6V1 € 6.32	E2 LP4A6V1 € 6.32	E2 LP1A6M1 € 4.42	E2 LP3A6M1 € 6.62	E2 LP4A6M1 € 6.62	E2 LP1A6S0 € 4.88	E2 LP3A6S0 € 7.07	E2 LP4A6S0 € 7.07
 orange	orange	E2 LP1A8V1 € 4.11	E2 LP3A8V1 € 6.32	E2 LP4A8V1 € 6.32	E2 LP1A8M1 € 4.42	E2 LP3A8M1 € 6.62	E2 LP4A8M1 € 6.62	E2 LP1A8S0 € 4.88	E2 LP3A8S0 € 7.07	E2 LP4A8S0 € 7.07

We recommend to match the colour combination of the LEDs with the actuator colours.



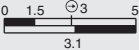
LED colour	Available device colour	Base mounting					
		Screw connection			PUSH-IN spring-operated connection		
		Operating voltage					
		12 ... 30 Vac/dc	120 Vac	230 Vac	12 ... 30 Vac/dc	120 Vac	230 Vac
 white	white / yellow	E2 LF1A2V1 € 4.11	E2 LF3A2V1 € 6.32	E2 LF4A2V1 € 6.32	E2 LF1A2M1 € 4.42	E2 LF3A2M1 € 6.62	E2 LF4A2M1 € 6.62
 red	red	E2 LF1A3V1 € 4.11	E2 LF3A3V1 € 6.32	E2 LF4A3V1 € 6.32	E2 LF1A3M1 € 4.42	E2 LF3A3M1 € 6.62	E2 LF4A3M1 € 6.62
 green	green	E2 LF1A4V1 € 4.11	E2 LF3A4V1 € 6.32	E2 LF4A4V1 € 6.32	E2 LF1A4M1 € 4.42	E2 LF3A4M1 € 6.62	E2 LF4A4M1 € 6.62
 blue	blue	E2 LF1A6V1 € 4.11	E2 LF3A6V1 € 6.32	E2 LF4A6V1 € 6.32	E2 LF1A6M1 € 4.42	E2 LF3A6M1 € 6.62	E2 LF4A6M1 € 6.62
 orange	orange	E2 LF1A8V1 € 4.11	E2 LF3A8V1 € 6.32	E2 LF4A8V1 € 6.32	E2 LF1A8M1 € 4.42	E2 LF3A8M1 € 6.62	E2 LF4A8M1 € 6.62

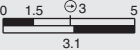
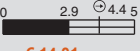
We recommend to match the colour combination of the LEDs with the actuator colours.

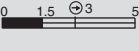
Protected contact blocks
FR, FX, FK series

 Technopolymer housing 
 Protection degree IP67, IP69K

 Ambient temperature: -25°C ... +80°C
 Marks:      


Contact block	One M20 conduit entry
Slow action contacts 1NO+1NC	€ 7.87 FR 6E2-M2  
Slow action contacts 2NC	€ 8.75 FR 9E2-M2  
Slow action contacts 1NO+2NC	€ 12.77 FR 20E2-M2  

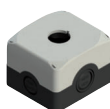
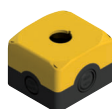
Contact block	Two conduit entries M20
Slow action contacts 1NO+1NC	€ 9.11 FX 6E2-M2  
Slow action contacts 2NC	€ 10.00 FX 9E2-M2  
Slow action contacts 1NO+2NC	€ 14.01 FX 20E2-M2  

Contact block	One M16 conduit entry
Slow action contacts 1NO+1NC	FK 33E2-M1 € 9.74  
Slow action contacts 2NC	FK 34E2-M1 € 10.74  

4P Housings

ES series housings

 Self-extinguishing polycarbonate housing 
 Protection degrees IP67 and IP69K
 Ambient temperature: -40°C ... +80°C

 4 x side cable entries + 2 x bottom entries
 Marks:    


ES 31001 € 6.37	ES 31000 € 6.37	ES 32000 € 8.78	ES 33000 € 10.28	ES 34000 € 11.62	ES 36000 € 14.51
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ES AC series housings

 Self-extinguishing polycarbonate housing 
 Protection degrees IP67 and IP69K
 Ambient temperature: -25°C ... +70°C

 4 x side cable entries + 2 x bottom entries
 Marks:    


Actuator colour and engraving	Contacts	Flush button Black bezel	Projecting button Black bezel	Positions and engraving	Contacts	Black selector switch with 2 positions Black bezel
 green	Slow action contacts 1NO	ES AC31001 € 13.51	-		Slow action contacts 1NO	ES AC31019 € 15.07
 red	Slow action contacts 1NC	ES AC31002  € 13.51	ES AC31017  € 14.14		Slow action contacts 1NO	ES AC31044
 green	Slow action contacts 1NO	ES AC31015 € 13.51	-		Slow action contacts 2NO	ES AC31045
 red	Slow action contacts 1NC	ES AC31016  € 13.51	ES AC31018  € 14.14		Slow action contacts 2NO	ES AC31046



Contacts	Push-pull	Rotary release	Key release
Slow action contacts 1NC	ES AC31004 → € 16.28	ES AC31003 → € 16.54	ES AC31022 → € 25.93
Slow action contacts 1NC self-monitored	ES AC31081 → € 20.29	ES AC31082 → € 20.55	ES AC31083 → € 29.95
Slow action contacts 2NC	ES AC31009 → € 18.36	ES AC31005 → € 18.62	ES AC31023 → € 28.02
Slow action contacts 1NO+1NC	ES AC31010 → € 18.36	ES AC31006 → € 18.62	ES AC31011 → € 28.02
Slow action contacts 1NO+2NC	ES AC31146 → € 21.01	ES AC31021 → € 20.70	ES AC31024 → € 30.67



Contacts	Push-pull with protection guard	Rotary release with protection guard	Key release with protection guard
Slow action contacts 1NC	ES AC31054 →	ES AC31238 →	ES AC31606 →
Slow action contacts 1NC self-monitored	ES AC31601 →	ES AC31605 →	ES AC31607 →
Slow action contacts 2NC	ES AC31602 →	ES AC31050 →	ES AC31092 →
Slow action contacts 1NO+1NC	ES AC31603 →	ES AC31056 →	ES AC31608 →
Slow action contacts 1NO+2NC	ES AC31604 →	ES AC31332 →	ES AC31609 →



Contacts	Emergency stop button Ø60 mm Push-pull	Emergency stop button Ø60 mm rotary release	Emergency stop button Ø60 mm key release
Slow action contacts 1NC	ES AC31843 →	ES AC31850 →	ES AC31847 →
Slow action contacts 1NC self-monitored	ES AC31844 →	ES AC31854 →	ES AC31846 →
Slow action contacts 2NC	ES AC31845 →	ES AC31853 →	ES AC31842 →
Slow action contacts 1NO+1NC	ES AC31848 →	ES AC31852 →	ES AC31841 →
Slow action contacts 1NO+2NC	ES AC31849 →	ES AC31851 →	ES AC31840 →



Contacts	Emergency stop button Push-Pull Yellow luminous disc, blinking Ø 60 mm, 24 Vac/dc, IP67	Emergency stop button, rotary release Yellow luminous disc, blinking Ø 60 mm, 24 Vac/dc, IP67	Emergency stop button, key release Yellow luminous disc, blinking Ø 60 mm, 24 Vac/dc, IP67
Slow action contacts 1NO+1NC + connection block	ES AC31430  € 37.09	ES AC31433  € 37.43	ES AC31436 
Slow action contacts 1NO+1NC self-monitored + connection block	ES AC31431  € 41.18	ES AC31434  € 41.44	ES AC31437 
Slow action contacts 1NO+2NC + connection block	ES AC31432  € 39.81	ES AC31435  € 39.81	ES AC31438 



Contacts	Yellow housing with push-pull emergency-stop button and 24 Vdc yellow illuminated guard	Yellow housing with emergency-stop button with rotary release and 24 Vdc yellow illuminated guard
Slow action contacts 2NC+1NO and buzzer	ES AC31683 € 50.27	ES AC31763
Slow action contacts 2NC	ES AC31701 € 45.11	ES AC31764



Contacts	White housing with push-pull emergency stop button and 24 Vdc RGB illuminated guard	White housing with emergency stop button rotary release and 24 Vdc RGB illuminated guard
Slow action contacts 2NC+1NO and buzzer	ES AC31684 € 59.02	ES AC31762
Slow action contacts 2NC	ES AC31703 € 54.20	ES AC31759



Contacts	Housing featuring 3-position black selector switch with long handle, satin chrome bezel and 24 Vdc RGB illuminated guard	Housing featuring 3-position selector switch with key, satin chrome bezel and 24 Vdc RGB illuminated guard
1NO+1NO contacts and buzzer	ES AC31730 € 56.21	ES AC31732 € 61.58
1NO+1NO contacts	ES AC31731 € 53.70	ES AC31733 € 59.07

[illegible][illegible]



	Upper button flush, white		Upper button flush, green		Upper button flush, green		Upper button flush, white		Upper button flush, white		Upper button flush, green
	Lower button flush, black		Lower button projecting, red		Lower button projecting, red		Central button projecting, red		Central button flush, black		Central button projecting, red
							Lower button flush, black		Lower emergency stop button with illuminated disc, IP67		Lower button flush, green
ES AC31600		ES AC32010 € 22.71		ES AC32011 € 22.71		ES AC33017 € 29.48		ES AC34035 € 53.64		ES AC33016 € 29.48	



Positions and engraving	Contacts	Black key selector switch with 2 positions Black bezel
	Slow action contacts 1NO	ES AC31020 € 20.75
	Slow action contacts 2NO	ES AC31047

Legend: Maintained Spring-return Key extraction position

EA series housings

Self-extinguishing polycarbonate housing
Protection degree IP65
Ambient temperature: -40°C ... +80°C
2 x side cable entries + 2 x bottom entries
Marks:

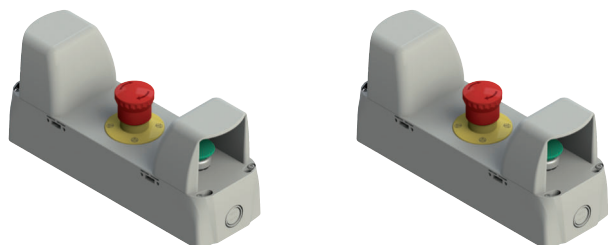


EA 37014 € 16.68	EA 37010 € 16.68	EA 37015 € 28.77	EA 37011 € 28.77	EA 37012 € 16.68	EA 37013 € 28.77
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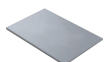
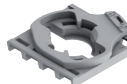
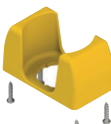
EA AC series complete housings

Self-extinguishing polycarbonate housing
Protection degree IP65
Ambient temperature: -25°C ... +70°C
2 x side cable entries + 2 x bottom entries
Marks:

For a correct operation in compliance with standard EN ISO 13851, the two-hand controls must be connected to a CS DM..... safety module for two-hand controls. See page 65.



	Mushroom button		Mushroom button
	Emergency stop button Ø 40		Emergency stop button Ø 40
	Mushroom button		Mushroom button
EA AC37040 € 57.43		EA AC37041 € 63.67	

						
VE GF121A € 0.17	VE GF720A € 0.90	VE CH121A1 € 3.26	VE GF151A € 1.26	VE TF12H1700 € 0.94	VE TF32H9700 € 0.94	VE TF32H5700 € 0.94
Technopolymer fixing ring. Packs of 20 pcs.	Metal fixing ring. Packs of 20 pcs.	Technopolymer fixing key for VE GF fixing rings.	Adapter with ring for panel fixing for Ø 22 devices on Ø 30 holes. Packs of 10 pcs.	Black label for laser engraving, without engraving. Packs of 10 pcs.	Grey label for laser engraving, without engraving. Packs of 10 pcs.	Yellow label for laser engraving, without engraving. Packs of 10 pcs.
						
VE PT32A00A0 € 0.40	VE TR4A970	VE TR3A770	E2 1BAC11 € 0.51	E2 1BAC21 € 0.66	VE BC2PV1 € 0.83	VE BC2FV1 € 0.83
Label holder, for 18x27 mm label, without label. Packs of 10 pcs.	Label 18x27, without engraving, for cutter or laser engraving. Packs of 100 pcs.	Transparent protective plate 18x27 mm for VE PT label holders, thickness 0.4 mm, without engraving. Packs of 100 pcs.	3-slot mounting adapter for E2 CP contact blocks and E2 LP LED units. Packs of 10 pcs.	4-slot mounting adapter for E2 CP contact blocks. Packs of 10 pcs.	Panel mounting connection block. Packs of 10 pcs.	Connection block for base mounting. Packs of 10 pcs.
						
VE GP12H1A € 0.13	VE GP12L1A € 0.30	VE GP12M1A € 0.65	VE CA1A1 € 1.79	VE CA1B1 € 2.16	VE CA1D1 € 3.03	VE CA1C1 € 2.90
Shaped ring for single device. Packs of 50 pcs.	Shaped ring for double button. Packs of 50 pcs.	Shaped ring for quadruple button. Packs of 10 pcs.	Protection cap for flush buttons. Packs of 10 pcs.	Protection cap for projecting button. Packs of 10 pcs.	Protection cap for double flush button. Packs of 10 pcs.	Protection cap for double and triple projecting buttons. Packs of 10 pcs.
						
E2 1TA1A110 € 1.01	VE PR3A70 € 0.10	VE GP32F5A € 1.78	VE GG3EA7A € 4.13	VE GP32A5A € 1.25	VE GP32B5A € 1.33	VE GP32B1A € 1.34
Black closing cap for Ø 22 mm holes. Packs of 10 pcs.	Transparent dust protection for E2 series panel mounting contact blocks. Packs of 50 pcs.	Rectangular open yellow protection guard complete with 4 screws 66x38 mm, 35 mm high.	Lockable protection guard complete with 4 screws (for panel thicknesses between 1 and 3.5 mm)	Cylindrical yellow protection guard with 4 windows Ø 40x20 mm.	Cylindrical yellow protection guard Ø 43x27 mm.	Cylindrical black protection guard Ø 43x27 mm.
						
VE GP32B4A € 1.34	VE GP32B6A € 1.34	VE AD3PF9A0 € 2.26	VE BD1PV1	VE BD1PM1	VE BD1FV1	VE BD1FM1
Cylindrical green protection guard Ø 43x27 mm.	Cylindrical blue protection guard Ø 43x27 mm.	Support with Ø 22 hole for mounting on DIN rail acc. to EN 60715. Packs of 10 pcs.	Contact block with diode, panel mounting, screw connection.	Contact block with diode, panel mounting, spring-operated connection.	Contact block with diode, base mounting, screw connection.	Contact block with diode, base mounting, spring-operated connection.

FD, FL, FC and FP series safety switches with separate actuator for heavy duty applications

Technopolymer housing (FP)

Metal housing (FD, FL, FC)

Protection degree IP67

Marks:      

One M20x1.5 conduit entry

Three M20x1.5 conduit entries

One M20x1.5 conduit entry

One M20x1.5 conduit entry



Slow action contacts 1NO+1NC

Slow action contacts 2NC

Slow action contacts 1NO+2NC

FD 693-M2

€ 19.14

FD 993-M2

€ 19.72

FD 2093-M2

€ 22.37

FL 693-M2

€ 19.49

FL 993-M2

€ 20.09

FL 2093-M2

€ 22.74

FC 3393-M2

€ 20.14

FC 3493-M2

€ 20.79

/

FP 693-M2

€ 17.11

FP 993-M2

€ 17.69

FP 2093-M2

€ 20.35

Separate actuators



VF KEYF

€ 1.39

VF KEYF1

€ 1.39

VF KEYF2

€ 3.47

VF KEYF3

€ 4.04

VF KEYF7

€ 3.35

VF KEYF8

€ 9.50

Attention! These separate actuators can be used only with items of the FD, FL, FC and FP series.

FR, FX, FK and FW series safety switches with separate actuator for standard applications

Technopolymer housing

Protection degree IP67

Marks:      

One M20x1.5 conduit entry

Two conduit entries M20x1.5

One M16x1.5 conduit entry

Two conduit entries M20x1.5



Slow action contacts 1NO+1NC

Slow action contacts 2NC

Slow action contacts 1NO+2NC

FR 693-M2

€ 12.91

FR 993-M2

€ 13.51

FR 2093-M2

€ 16.22

FX 693-M2

€ 13.75

FX 993-M2

€ 14.35

FX 2093-M2

€ 17.07

FK 3393-M1

€ 14.17

FK 3493-M1

€ 14.85

/

FW 3392-M2

€ 14.23

FW 3492-M2

€ 14.76

FW 2092-M2

€ 17.36

Separate actuators



VF KEYD

€ 0.96

VF KEYD1

€ 0.96

VF KEYD2

€ 3.00

VF KEYD3

€ 3.60

VF KEYD5

€ 1.23

VF KEYD6

€ 1.22

VF KEYD7

€ 3.22

VF KEYD8

€ 4.04

VF KEYD10

€ 1.61

VF KEYD11

€ 2.67

Attention! These separate actuators can be used only with items of the FR, FX, FK and FW series.

SR series magnetic safety sensors

Technopolymer housing

With 2 m cable or M8 connector

Protection degrees IP67 and IP69K

Marks:      

With M8 connector

With M8 connector



2NC contacts (with closed guard)

Actuation distance

SR BD40AN2-B02F

€ 28.69

8 mm

SR BD40ALK-B02F

€ 32.14

8 mm

SR AD40AN2-A01N

€ 29.98

5 mm

SR AD40ALK-A01N

€ 33.09

5 mm



For safety applications, connect with the safety modules shown on the side.
See technical data on page 64.

CS AR-01●●●●^b
CS AR-02●●●●^b
CS AR-04●●●●^b
CS AR-05●●●●
CS AR-06●●●●
CS AR-08●●●●

CS AR-46●024
CS AR-91●●●●
CS AR-94●●●●
CS AR-95●●●●
CS AT-0●●●●
CS AT-1●●●●

CS AT-3●●●●
CS FS-5●●●●
CS MP●●●●
CS MF●●●●

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

ST G - ST H series RFID safety sensors

Technopolymer housing
Versions with a magnetic holding force
With 2 m cable or M12 connector
Protection degrees IP67 and IP69K

Actuator with high coding level
(EN ISO 14119)
Multitag programming
Status LED

Supply voltage: 24 Vdc
Marks: **ECOLAB**

Output with PVC cable

Output with PUR cable

Output with M12
technopolymer connector

Output with M12
stainless steel connector

OS safety outputs	O signalling outputs	IS safety inputs	I programming inputs	EDM inputs	Programmable
2	1	-	-	-	-
2	1	2	-	-	-
2	1	2	1	-	●
2	1	2	-	1	-



ST GD210N2-G1T € 78.59	ST GD210H2-G1T	ST GD210MP-G1T € 72.81	ST GD210MK-G1T € 78.39
ST GD310N2-G1T € 79.66	ST GD310H2-G1T € 87.96	ST GD310MP-G1T € 72.92	ST GD310MK-G1T € 78.52
ST GD420N2-G1T € 79.66	ST GD420H2-G1T € 87.96	ST GD420MP-G1T € 73.00	ST GD420MK-G1T € 78.64
ST GD510N2-G1T € 80.43	ST GD510H2-G1T	ST GD510MP-G1T € 73.78	ST GD510MK-G1T € 79.40
11 mm	11 mm	11 mm	11 mm

Output with 0.2 m cable length and M12 connector

OS safety outputs	O signalling outputs	IS safety inputs	I programming inputs	EDM inputs	Programmable
2	1	-	-	-	-
2	1	2	-	-	-
2	1	2	1	-	●
2	1	2	-	1	-



ST GD210M0.2-G1T € 86.09	
ST GD310M0.2-G1T € 92.05	
ST GD420M0.2-G1T € 91.75	
ST GD510M0.2-G1T € 92.53	
11 mm	

Output with PVC cable

Output with PUR cable

Output with M12
technopolymer connector

Output with M12
stainless steel connector

OS safety outputs	O signalling outputs	IS safety inputs	I programming inputs	EDM inputs	Programmable
2	1	-	-	-	-
2	1	2	-	-	-
2	1	2	1	-	●
2	1	2	-	1	-



ST GD210N2-L1T € 79.09	ST GD210H2-L1T	ST GD210MP-L1T € 73.33	ST GD210MK-L1T € 78.91
ST GD310N2-L1T € 80.17	ST GD310H2-L1T € 73.42	ST GD310MP-L1T € 73.42	ST GD310MK-L1T € 79.04
ST GD420N2-L1T € 80.17	ST GD420H2-L1T € 73.50	ST GD420MP-L1T € 73.50	ST GD420MK-L1T € 79.14
ST GD510N2-L1T	ST GD510H2-L1T	ST GD510MP-L1T	ST GD510MK-L1T
11 mm	11 mm	11 mm	11 mm

Output with PVC cable

Output with PUR cable

Output with M12
technopolymer connector

Output with M12
stainless steel connector

OS safety outputs	O signalling outputs	IS safety inputs	I programming inputs	EDM inputs	Programmable
2	1	-	-	-	-
2	1	2	-	-	-
2	1	2	1	-	●
2	1	2	-	1	-



ST GD210N2-E1T € 81.87	ST GD210H2-E1T	ST GD210MP-E1T € 76.11	ST GD210MK-E1T € 81.69
ST GD310N2-E1T € 82.95	ST GD310H2-E1T € 76.22	ST GD310MP-E1T € 76.22	ST GD310MK-E1T
ST GD420N2-E1T € 82.95	ST GD420H2-E1T € 76.28	ST GD420MP-E1T € 76.28	ST GD420MK-E1T € 81.93
ST GD510N2-E1T	ST GD510H2-E1T	ST GD510MP-E1T € 77.06	ST GD510MK-E1T € 82.71
18 mm	18 mm	18 mm	18 mm



For safety applications, connect with the safety modules shown on the side.
See technical data on page 64.

CS AR-01•024
CS AR-02•024
CS AR-05•024
CS AR-06•024
CS AR-08•024
CS AT-0•024
CS AT-1•024
CS MF•024
CS MP•024



With permanent magnet

OS safety outputs	O signalling outputs	IS safety inputs	I programming inputs	EDM inputs	Programmable
2	1	-	-	-	-
2	1	2	-	-	-
2	1	2	1	-	●
2	1	2	-	1	-
Actuation distance					

Holding force 25 N



ST HE210MP-H1TE
€ 101.04
ST HE310MP-H1TE
€ 101.14
ST HE420MP-H1TE
€ 101.22
ST HE510MP-H1TE
€ 101.99

11 mm

Holding force 40 N



ST HE210MP-H1TF
€ 104.90
ST HE310MP-H1TF
€ 105.00
ST HE420MP-H1TF
€ 105.07
ST HE510MP-H1TF

11 mm



Extended temperature range

OS safety outputs	O signalling outputs	IS safety inputs	I programming inputs	EDM inputs	Programmable
2	1	2	1	-	●
Actuation distance					

Output with M12 stainless steel connector



ST GD420MK-G1T-T8
11 mm

Output with M12 stainless steel connector
With permanent magnet
Holding force 25 N

ST HE420MK-H1TE-T8
11 mm

Output with M12 stainless steel connector
With permanent magnet
Holding force 40 N

ST HE420MK-H1TF-T8
11 mm

Multitag programming

OS safety outputs	O signalling outputs	IS safety inputs	I programming inputs	EDM inputs	Programmable
2	1	2	-	-	-
Actuation distance					

Two actuators
TAG 0 activates OS, TAG 1 activates O

ST GD330MP-P1
€ 93.15
11 mm

Two actuators
Each TAG activates OS and sends the TAG no.

ST GD330MP-P2
€ 93.15
11 mm

Three actuators
Each TAG activates OS and sends the TAG no.

ST GD330MP-P3
€ 103.10
11 mm

Four actuators
Each TAG activates OS and sends the TAG no.

ST GD330MP-P4
€ 113.05
11 mm

ST D series
RFID safety sensors

Technopolymer housing
With 2 m cable or M12 connector
Actuator with high coding level (EN ISO 14119)
Protection degrees IP67 and IP69K

Status LED
Supply voltage: 24 Vdc
Marks: CE c UL US TCB ENECOLAB UK

Cable at the right



ST DD210N2-D1T
€ 82.02
ST DD310N2-D1T
€ 83.12
ST DD420N2-D1T
€ 83.12
ST DD510N2-D1T
€ 83.90

12 mm

Cable at the left



ST DL210N2-D1T
€ 82.02
ST DL310N2-D1T
€ 83.12
ST DL420N2-D1T
€ 83.12
ST DL510N2-D1T
€ 83.90

12 mm

M12 connector, at the right



ST DD210MK-D1T
€ 82.34
ST DD310MK-D1T
€ 82.47
ST DD420MK-D1T
€ 82.58
ST DD510MK-D1T
€ 83.36

12 mm

M12 connector, at the left



ST DL210MK-D1T
€ 82.34
ST DL310MK-D1T
€ 82.47
ST DL420MK-D1T
€ 82.58
ST DL510MK-D1T
€ 83.36

12 mm

OS safety outputs	O signalling outputs	IS safety inputs	I programming inputs	EDM inputs	Programmable
2	1	-	-	-	-
2	1	2	-	-	-
2	1	2	1	-	●
2	1	2	-	1	-
Actuation distance					



For safety applications, connect
with the safety modules shown
on the side.
See technical data on page 64.

CS AR-01•024
CS AR-02•024
CS AR-05•024
CS AR-06•024
CS AR-08•024
CS MF•••••
CS MP•••••

HP AA series hinge switches

Metal housing
With 2 m cable or M12 connector
Protection degrees IP67 and IP69K

Marks:

Slow action contacts 1NO+2NC

		With M12 connector		With M12 connector		Additional hinge	Additional hinge
HP AA052F-2SN	HP AA052F-2AN	HP AA052F-2PN	HP AA052F-KSM	HP AA052F-KAM	HC AA	HC LL	
€ 50.28	€ 50.28	€ 50.28	€ 51.14	€ 51.14	€ 12.74	€ 8.67	

HP AB series hinge switches

Metal housing
With 2 m cable or M12 connector
Protection degrees IP67 and IP69K

Marks:

Slow action contacts 1NO+2NC

		With M12 connector		With M12 connector		Additional hinge
HP AB052F-2SN	HP AB052F-2AN	HP AB052F-2PN	HP AB052F-KSM	HP AB052F-KAM	HC AB	
€ 52.51	€ 52.51	€ 52.51	€ 53.35	€ 53.35	€ 15.04	

HX series hinge switches

AISI 316L stainless steel housing
With 2 m cable or M12 connector
Protection degrees IP67 and IP69K

Marks:

Slow action contacts 2NO+2NC

Additional hinge			
HX BL22-2PN	HX BL22-KSM	HX BL22-KAM	HX CB
€ 298.12	€ 304.43	€ 304.43	€ 228.49

HX series electronic hinge switches

AISI 316L stainless steel housing
With 2 m cable or M12 connector
Protection degrees IP67 and IP69K
Status LED

Supply voltage: 24 Vdc
Marks:

PNP switching outputs

HX BEE1-2PN	HX BEE1-KSM	HX BEE1-KAM
€ 387.49	€ 390.99	€ 390.99



For safety applications, the HX series electronic hinge switches must be connected to modules with OSSD inputs. Shown on the side are the compatible Pizzato modules.
See technical data on page 64

CS AR-01•024
CS AR-02•024
CS AR-05•024
CS AR-06•024
CS AR-08•024
CS AT-0•024
CS AT-1•024
CS MP•••••
CS MF•••••

Switches for hinges FD, FL and FC series FR, FX, FK, FM series

Technopolymer housing or metal housing
One, two or three conduit entries
Protection degree IP67

Marks:

Slow action contacts 1NO+1NC

Slow action contacts 2NC

Slow action contacts 1NO+2NC

FD 1895-M2	FL 1895-M2	FC 3395-M2	FR 1896-M2	FX 1896-M2	FK 3396-M1	FM 1896-M2
€ 19.15	€ 19.51	€ 20.15	€ 14.91	€ 15.76	€ 16.18	€ 17.76
FD 995-M2	FL 995-M2	FC 3495-M2	FR 996-M2	FX 996-M2	FK 3496-M1	FM 996-M2
€ 19.73	€ 20.10	€ 20.81	€ 15.52	€ 16.37	€ 16.87	€ 18.37
FD 2095-M2	FL 2095-M2	/	FR 2096-M2	FX 2096-M2	/	FM 2096-M2
€ 22.40	€ 22.75		€ 18.24	€ 19.08		€ 21.09

FR, FX, FM series switches with slotted hole lever

Technopolymer housing or metal housing
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

FR 18C1-M2	FR 18C2-M2	FR 18C3-M2	FX 18C1-M2	FX 18C2-M2	FX 18C3-M2	FM 18C1-M2	FM 18C3-M2
€ 13.47	€ 13.47	€ 13.47	€ 14.31	€ 14.31	€ 14.31	€ 16.32	€ 16.32
FR 9C1-M2	FR 9C2-M2	FR 9C3-M2	FX 9C1-M2	FX 9C2-M2	FX 9C3-M2	FM 9C1-M2	FM 9C3-M2
€ 14.08	€ 14.08	€ 14.08	€ 14.92	€ 14.92	€ 14.92	€ 16.93	€ 16.93
FR 20C1-M2	FR 20C2-M2	FR 20C3-M2	FX 20C1-M2	FX 20C2-M2	FX 20C3-M2	FM 20C1-M2	FM 20C3-M2
€ 16.80	€ 16.80	€ 16.80	€ 17.64	€ 17.64	€ 17.64	€ 19.64	€ 19.64

**FS series
locking switches**

Technopolymer housing 
 Three M20x1.5 conduit entries
 Max. holding force: 1100 N
 (with key release): 900 N
 Protection degree IP67
 Marks:      

1NO+1NC contacts (magnet)
1NO+2NC contacts (magnet)
1NO+1NC contacts (magnet) +1NC (actuator)

Locked actuator with
de-energised 24 Vac/dc
solenoid.



FS 1896D024-M2
€ 72.07

FS 2096D024-M2
€ 75.20

FS 2896D024-M2
€ 75.22

Locked actuator with
de-energised 24 Vac/dc
solenoid. With auxiliary
key release.



FS 1898D024-M2
€ 77.40

FS 2098D024-M2
€ 80.54

FS 2898D024-M2
€ 80.55

Locked actuator with
energised 24 Vac/dc
solenoid.



FS 1896E024-M2
€ 72.45

FS 2096E024-M2
€ 75.57

FS 2896E024-M2
€ 75.59

**FD, FP series
locking switches**

Technopolymer housing (FP) 
 Metal housing (FD)
 One M20x1.5 conduit entry
 Max. holding force: 1000 N
 Protection degree IP67
 Marks:      

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

With timed (20 s) manual
actuator **lock/release**



FD 6R2-M2
€ 23.89

FD 9R2-M2
€ 24.48

FD 20R2-M2
€ 27.13

With timed (20 s) manual
actuator **lock/release**



FP 6R2-M2
€ 21.87

FP 9R2-M2
€ 22.45

FP 20R2-M2
€ 25.10

With timed (10 s) manual
actuator **lock/release**



FD 6R2-L10M2
€ 23.89

FD 9R2-L10M2
€ 24.48

FD 20R2-L10M2
€ 27.13

With **key release**



FD 1899-M2
€ 27.47

/

FD 2099-M2
€ 30.71

With **key release**



FP 1899-M2
€ 25.44

/

FP 2099-M2
€ 28.68

Separate actuators for FD, FP, FS series

VF KEYF
€ 1.39



VF KEYF1
€ 1.39



VF KEYF2
€ 3.47



VF KEYF3
€ 4.04



VF KEYF7
€ 3.35



VF KEYF8
€ 9.50

Attention! These separate actuators cannot be used with items of the FG, FY series.

Lock-out device

Padlockable lock-out device to prevent the actuator entry and the accidental closing of the door behind operators while they are in the danger area.

Article	Description
VF KB1 € 8.85	Lock-out device for FD, FP, FS series
VF KB2 € 8.85	Lock-out device for FG, FY series





FG series locking switches

Metal housing
4 switching contacts
Max. holding force: 3000 N
Protection degree IP67
Status LED
Three M20x1.5 conduit entries
Marks:

1NO+1NC contacts (magnet) + 1NO+1NC (actuator)
2NC contacts (magnet) + 1NO+1NC (actuator)
3NC contacts (magnet) + 1NC (actuator)

Locked actuator with
de-energised 24 Vac/dc
solenoid.



FG 60AD1D0A
€ 111.37
FG 60BD1D0A
€ 111.37
FG 60CD1D0A
€ 111.37

Locked actuator with
energised 24 Vac/dc
solenoid.



FG 60AD1E0A
€ 111.37
FG 60BD1E0A
€ 111.37
FG 60CD1E0A
€ 111.37

Locked actuator with
de-energised 24 Vac/dc
solenoid.
With key release.



FG 60AD5D0A
€ 125.81
FG 60BD5D0A
€ 125.81
FG 60CD5D0A
€ 125.81

Locked actuator with
de-energised 24 Vac/dc
solenoid.
With key release and
escape release button.



FG 60AD6D0A
€ 130.96
FG 60BD6D0A
€ 130.96
FG 60CD6D0A
€ 130.96

Locked actuator with
de-energised 24 Vac/dc
solenoid.
With escape release
button.



FG 60AD7D0A
€ 125.66
FG 60BD7D0A
€ 125.66
FG 60CD7D0A
€ 125.66

FY series locking switches

Technopolymer housing
4 switching contacts
Max. holding force: 2800 N
Protection degrees IP67 and IP69K
Status LED
Three M20x1.5 conduit entries
Marks:

1NO+1NC contacts (magnet) + 1NO+1NC (actuator)
2NC contacts (magnet) + 1NO+1NC (actuator)
3NC contacts (magnet) + 1NC (actuator)

Locked actuator with
de-energised 24 Vac/dc
solenoid.



FY 60AD1D0A
€ 92.50
FY 60BD1D0A
€ 92.50
FY 60CD1D0A
€ 92.50

Locked actuator with
energised 24 Vac/dc
solenoid.



FY 60AD1E0A
€ 92.50
FY 60BD1E0A
€ 92.50
FY 60CD1E0A
€ 92.50

Locked actuator with
de-energised 24 Vac/dc
solenoid.
With key release.



FY 60AD5D0A
€ 106.92
FY 60BD5D0A
€ 106.92
FY 60CD5D0A
€ 106.92

Locked actuator with
de-energised 24 Vac/dc
solenoid.
With key release and
escape release button.



FY 60AD6D0A
€ 112.09
FY 60BD6D0A
€ 112.09
FY 60CD6D0A
€ 112.09

Locked actuator with
de-energised 24 Vac/dc
solenoid.
With escape release
button.



FY 60AD7D0A
€ 106.77
FY 60BD7D0A
€ 106.77
FY 60CD7D0A
€ 106.77

FY series locking switches with integrated control devices

Technopolymer housing
4 switching contacts
Max. holding force: 2800 N
Protection degree IP65
Status LED
Three M20x1.5 conduit entries
Marks:

1NO+1NC contacts (magnet) + 1NO+1NC (actuator)
2NC contacts (magnet) + 1NO+1NC (actuator)
3NC contacts (magnet) + 1NC (actuator)

Locked actuator with
de-energised 24 Vac/dc
solenoid.



FY 60AD1D0A-N01
€ 145.13
FY 60BD1D0A-N01
€ 145.13
FY 60CD1D0A-N01
€ 145.13

Locked actuator with
energised 24 Vac/dc
solenoid.



FY 60AD1E0A-N03
€ 135.89
FY 60BD1E0A-N03
€ 135.89
FY 60CD1E0A-N03
€ 135.89

Locked actuator with
de-energised 24 Vac/dc
solenoid.
With key release.



FY 60AD5D0A-N06
€ 144.10
FY 60BD5D0A-N06
€ 144.10
FY 60CD5D0A-N06
€ 144.10

Locked actuator with
de-energised 24 Vac/dc
solenoid.
With key release and
escape release button.



FY 60AD6D0A-N07
€ 139.37
FY 60BD6D0A-N07
€ 139.37
FY 60CD6D0A-N07
€ 139.37

Locked actuator with
de-energised 24 Vac/dc
solenoid.
With escape release
button.



FY 60AD7D0A-N10
€ 143.40
FY 60BD7D0A-N10
€ 143.40
FY 60CD7D0A-N10
€ 143.40

Separate actuators for FG and FY series



VF KEYF20
€ 2.81



VF KEYF21
€ 2.82



VF KEYF22
€ 3.82



VF KEYF28
€ 9.59

Attention! These separate actuators cannot be used with items of the FD, FR, FS series.

RFID safety switches with lock NG series

Metal housing, three M20x1.5 conduit entries

Actuator with high coding level (EN ISO 14119)

Max. holding force: 9750 N

Protection degrees IP67 and IP69K

Status LED

Marks:



Locked actuator with **de-energised 24 Vdc solenoid.**



Locked actuator with **energised 24 Vdc solenoid.**



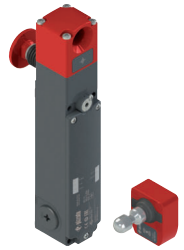
Locked actuator with **de-energised 24 Vdc solenoid. With key release.**



Locked actuator with **de-energised 24 Vdc solenoid. With key release and escape release button.**



Locked actuator with **de-energised 24 Vdc solenoid. With escape release button.**



Mode 1

OS1/OS2 safety outputs active with inserted and locked actuator

Mode 2

OS1/OS2 safety outputs active with inserted actuator

Mode 3

OS1 safety output active with inserted and locked actuator, OS2 safety output active with inserted actuator

NG 2D1D411A-F31
€ 342.51

NG 2D1E411A-F31
€ 342.51

NG 2D5D411A-F31
€ 364.00

NG 2D6D411A-F31
€ 384.20

NG 2D7D411A-F31
€ 368.88

NG 2D1D421A-F31
€ 342.51

NG 2D1E421A-F31
€ 342.51

NG 2D5D421A-F31
€ 364.00

NG 2D6D421A-F31
€ 384.20

NG 2D7D421A-F31
€ 368.88

NG 2D1D431A-F31
€ 342.51

NG 2D1E431A-F31
€ 342.51

NG 2D5D431A-F31
€ 364.00

NG 2D6D431A-F31
€ 384.20

NG 2D7D431A-F31
€ 368.88

RFID safety switches with lock NG series with integrated control devices

Metal housing, three M20x1.5 conduit entries

Actuator with high coding level (EN ISO 14119)

Max. holding force: 9750 N

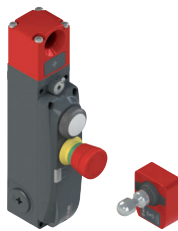
Protection degree IP65

Status LED

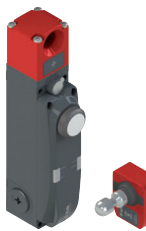
Marks:



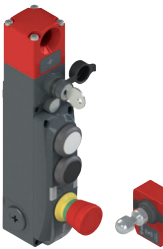
Locked actuator with **de-energised 24 Vdc solenoid.**



Locked actuator with **energised 24 Vdc solenoid.**



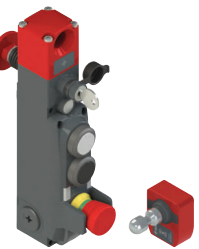
Locked actuator with **de-energised 24 Vdc solenoid. With key release.**



Locked actuator with **de-energised 24 Vdc solenoid. With key release and escape release button.**



Locked actuator with **de-energised 24 Vdc solenoid. With key release, escape release button and guard.**



Mode 1

OS1/OS2 safety outputs active with inserted and locked actuator

NG 2D1D412D-F31
€ 432.90

NG 2D1E411H-F31
€ 396.20

NG 2D5D411D-F31
€ 477.14

NG 2D6D412P-F31
€ 452.96

NG 2D6D41CF-F31

RFID safety switches with lock NG series with remote escape release

Self-monitoring of cable tension

Device can be turned in 90° steps

Flexible installation

Activation button for remote escape release

Marks:



Note: The codes shown on the side include the safety switch supplied with the remote release cable which has a standard length of 5 meters. For other lengths, please contact our Technical Department.

The remote escape release switch must be supplemented with the push button with the code VN RR-K4.

Locked actuator with **de-energised 24 Vdc solenoid. With remote escape release.**



NG 2D9D411A-F31
€ 412.49

NG 2D9D421A-F31
€ 412.49

NG 2D9D431A-F31
€ 412.49

Activation button for remote escape release



Article

Description

VN RR-K4
€ 53.60

Activation button for remote escape release on NG and NS series switches

Note: The actuation cable is integrated in the remote release device connected to the safety switch.

Inputs and outputs

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



For safety applications, connect with the safety modules shown on the side. See technical data on page 64.

CS AR-01•024
CS AR-02•024
CS AR-05•024
CS AR-06•024
CS AR-08•024
CS AT-0•024
CS AT-1•024
CS MP•024
CS MF•024



RFID safety switches with lock NS series

Technopolymer housing

Actuator with high coding level

(EN ISO 14119)

Max. holding force: 2100 N

Protection degrees IP67 and IP69K

Status LED

Marks:



Locked actuator with **de-energised** 24 Vdc solenoid.
With screwdriver release.



Locked actuator with **de-energised** 24 Vdc solenoid.
With key release.



Locked actuator with **de-energised** 24 Vdc solenoid.
With key release and escape release button.



Locked actuator with **de-energised** 24 Vdc solenoid.
With screwdriver release and escape release button.



Locked actuator with **energised** 24 Vdc solenoid.
With escape release button.



With M12 connector, axial

Mode 1

OS1/OS2 safety outputs active with inserted and locked actuator

Mode 2

OS1/OS2 safety outputs active with inserted actuator

Mode 3

OS1 safety output active with inserted and locked actuator, OS2 safety output active with inserted actuator

NS D4AZ1SMK-F41
€ 211.02

NS D4ST1SMK-F41
€ 249.70

NS D4SE1SMK-F41
€ 278.72

NS D4CE1SMK-F41
€ 251.64

NS E4TE1SMK-F41
€ 249.70

NS G4AZ1SMK-F41
€ 211.02

NS G4ST1SMK-F41
€ 249.70

NS G4SE1SMK-F41
€ 278.72

NS G4CE1SMK-F41
€ 251.64

NS H4TE1SMK-F41
€ 249.70

NS L4AZ1SMK-F41
€ 211.02

NS L4ST1SMK-F41
€ 249.70

NS L4SE1SMK-F41
€ 278.72

NS L4CE1SMK-F41
€ 251.64

NS M4TE1SMK-F41
€ 249.70

Locked actuator with **de-energised** 24 Vdc solenoid.
With screwdriver release.



Locked actuator with **de-energised** 24 Vdc solenoid.
With key release.



Locked actuator with **de-energised** 24 Vdc solenoid.
With key release and escape release button.



Locked actuator with **de-energised** 24 Vdc solenoid.
With screwdriver release and escape release button.



Locked actuator with **energised** 24 Vdc solenoid.
With escape release button.



With axial cable, 0.2 m length and M12 connector

Mode 1

OS1/OS2 safety outputs active with inserted and locked actuator

Mode 2

OS1/OS2 safety outputs active with inserted actuator

Mode 3

OS1 safety output active with inserted and locked actuator, OS2 safety output active with inserted actuator

NS D4AZ1SM0.2-F41

NS D4ST1SM0.2-F41

NS D4SE1SM0.2-F41

NS D4CE1SM0.2-F41

NS E4TE1SM0.2-F41

NS G4AZ1SM0.2-F41

NS G4ST1SM0.2-F41

NS G4SE1SM0.2-F41

NS G4CE1SM0.2-F41

NS H4TE1SM0.2-F41

NS L4AZ1SM0.2-F41

NS L4ST1SM0.2-F41

NS L4SE1SM0.2-F41

NS L4CE1SM0.2-F41

NS M4TE1SM0.2-F41

To order a product with lateral output direction, replace S with D in the codes shown above.
Example: NS D4AZ1SM0.2-F41 → NS D4AZ1DM0.2-F41

RFID safety switches with lock NS series with integrated control devices

Technopolymer housing

Actuator with high coding level

(EN ISO 14119)

Max. holding force: 2100 N

Protection degree IP65

Versions with 1 or 2 devices

Status LED

Marks:



Locked actuator with **de-energised** 24 Vdc solenoid.
With screwdriver release and protection guard.



Locked actuator with **de-energised** 24 Vdc solenoid.
With screwdriver release.



Locked actuator with **de-energised** 24 Vdc solenoid.
With key release and escape release button.



Locked actuator with **de-energised** 24 Vdc solenoid.
With screwdriver release, escape release button and protection guard.



Locked actuator with **energised** 24 Vdc solenoid.
With escape release button.



Mode 1

OS1/OS2 safety outputs active with inserted and locked actuator

Mode 2

OS1/OS2 safety outputs active with inserted actuator

Mode 3

OS1 safety output active with inserted and locked actuator, OS2 safety output active with inserted actuator

NS D4AZ1SRK-F41N187

NS D4ST1SRK-F41N111

NS D4SE1SRK-F41N113

NS D4CE1SRK-F41N243

NS E4TE1SRK-F41N115

NS G4AZ1SRK-F41N187

NS G4ST1SRK-F41N111

NS G4SE1SRK-F41N113

NS G4CE1SRK-F41N243

NS H4TE1SRK-F41N115

NS L4AZ1SRK-F41N187

NS L4ST1SRK-F41N111

NS L4SE1SRK-F41N113

NS L4CE1SRK-F41N243

NS M4TE1SRK-F41N115

RFID safety switches with lock NS series with integrated control devices

Technopolymer housing
Actuator with high coding level
(EN ISO 14119)
Max. holding force: 2100 N
Protection degree IP65
Versions with 3 or 4 devices
Status LED

Marks:



Locked actuator with **de-energised** 24 Vdc solenoid.
With screwdriver release.

Two M12 connectors, axial.



Locked actuator with **de-energised** 24 Vdc solenoid.
With key release and
protection guard.

Two M12 connectors, axial.



Locked actuator with **de-energised** 24 Vdc solenoid.
With key release and
escape release button.

M23 connector, axial.



Locked actuator with **de-energised** 24 Vdc solenoid.
With screwdriver release
and escape release
button.

Two M12 connectors, axial.



Locked actuator with **energised** 24 Vdc solenoid.
With escape release
button and protection
guard.

Two M12 connectors, axial.



Mode 1

OS1/OS2 safety outputs active with inserted and locked actuator

Mode 2

OS1/OS2 safety outputs active with inserted actuator

Mode 3

OS1 safety output active with inserted and locked actuator, OS2 safety output active with inserted actuator

NS D4AZ1SRK-F41N001

NS D4ST1SRK-F41N193

NS D4SE1STK-F41N003

NS D4CE1SRK-F41N004

NS E4TE1SRK-F41N242

NS G4AZ1SRK-F41N001

NS G4ST1SRK-F41N193

NS G4SE1STK-F41N003

NS G4CE1SRK-F41N004

NS H4TE1SRK-F41N242

NS L4AZ1SRK-F41N001

NS L4ST1SRK-F41N193

NS L4SE1STK-F41N003

NS L4CE1SRK-F41N004

NS M4TE1SRK-F41N242

RFID safety switches with lock NS series with remote escape release

Self-monitoring of cable tension
Device can be turned in 90° steps
Flexible installation
Activation button for remote escape release

Marks:



Note: The codes shown on the side include the safety switch supplied with the remote release cable which has a standard length of 5 meters.
For other lengths, please contact our Technical Department.

The remote escape release switch must be supplemented with the push button with the code VN RR-K4.

Locked actuator with **de-energised** 24 Vdc solenoid.
With key release and
remote escape release.



Locked actuator with **de-energised** 24 Vdc solenoid.
With screwdriver release
and remote escape
release.



NS D4SR1SMK-F41
€ 327.21

NS D4CR1SMK-F41
€ 300.13

NS G4SR1SMK-F41
€ 327.21

NS G4CR1SMK-F41
€ 300.13

NS L4SR1SMK-F41
€ 327.21

NS L4CR1SMK-F41
€ 300.13

Activation button for remote escape release



Article

Description

VN RR-K4
€ 53.60

Activation button for remote escape release on NG and NS series switches

Note: The actuation cable is integrated in the remote release device connected to the safety switch.

Inputs and outputs

2 safety inputs IS1, IS2
2 safety outputs OS1, OS2
1 signalling output O3: closed guard
1 signalling output O4: locked guard
2 solenoid activation inputs IE1, IE2
1 programming / reset input I3



For safety applications, connect with the safety modules shown on the side.
See technical data on page 64.

CS AR-01•024
CS AR-02•024
CS AR-05•024
CS AR-06•024
CS AR-08•024
CS AT-0•024
CS AT-1•024
CS MP•••••
CS MF•••••

NX series**RFID safety switches with lock**

Compact dimensions: 30 x 30 x 94,5 mm

Technopolymer housing, metal head

Metal actuator with high coding level
(EN ISO 14119)

Max. holding force: 6000 N

Bistable operation

Protection degrees IP67 and IP69K

Status signalling RGB LED

Marks:      

With M12 connector, axial

Mode 1

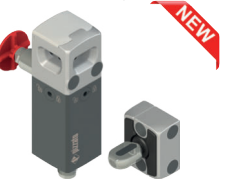
OS1/OS2 safety outputs active with inserted and locked actuator

Mode 2

OS1/OS2 safety outputs active with inserted actuator

Inputs2 safety inputs IS1, IS2
2 solenoid activation inputs IE1, IE2
1 programming / reset input I3**Outputs**2 safety outputs OS1, OS2
1 signalling output O3: closed guard
1 signalling output O4: locked guard

Bistable with front hex-key release

NX B42AZ1SMK-F61
€ 208.85Bistable with front hex-key release
With EDM inputNX B52AZ1SMK-F61
€ 208.85Bistable with hex-key release on
three sidesNX B42CZ1SMK-F61
€ 210.08Bistable with hex-key release on
three sides
With EDM inputNX B52CZ1SMK-F61
€ 210.08NX P42AZ1SMK-F61
€ 208.85NX P52AZ1SMK-F61
€ 208.85NX P42CZ1SMK-F61
€ 210.08NX P52CZ1SMK-F61
€ 210.08Bistable with hexagonal key release
at front and escape release button
at backNX B42AE1SMK-F61
€ 227.41Bistable with hexagonal key at front
and escape release button at back
With EDM inputNX B52AE1SMK-F61
€ 227.41Bistable with hexagonal key release
on three sides and escape release
button at backNX B42CE1SMK-F61
€ 228.64Bistable with hexagonal key release
on three sides and escape release
button at back
With EDM inputNX B52CE1SMK-F61
€ 228.64NX P42AE1SMK-F61
€ 227.41NX P52AE1SMK-F61
€ 227.41NX P42CE1SMK-F61
€ 228.64NX P52CE1SMK-F61
€ 228.64

With M12 connector, axial

Mode 1

OS1/OS2 safety outputs active with inserted and locked actuator

Mode 2

OS1/OS2 safety outputs active with inserted actuator

Bistable with front hex-key release



NX B42AZ1SM0.2-F61

Bistable with front hex-key release
With EDM input

NX B52AZ1SM0.2-F61

Bistable with hex-key release on
three sides

NX B42CZ1SM0.2-F61

Bistable with hex-key release on
three sides
With EDM input

NX B52CZ1SM0.2-F61

NX P42AZ1SM0.2-F61

NX P52AZ1SM0.2-F61

NX P42CZ1SM0.2-F61

NX P52CZ1SM0.2-F61

Bistable with hexagonal key release
at front and escape release button
at back

NX B42AE1SM0.2-F61

Bistable with hexagonal key at front
and escape release button at back
With EDM input

NX B52AE1SM0.2-F61

Bistable with hexagonal key release
on three sides and escape release
button at back

NX B42CE1SM0.2-F61

Bistable with hexagonal key release
on three sides and escape release
button at back
With EDM input

NX B52CE1SM0.2-F61

NX P42AE1SM0.2-F61

NX P52AE1SM0.2-F61

NX P42CE1SM0.2-F61

NX P52CE1SM0.2-F61

With axial cable, 0.2 m length
and M12 connector**Mode 1**

OS1/OS2 safety outputs active with inserted and locked actuator

Mode 2

OS1/OS2 safety outputs active with inserted actuator

With axial cable, 0.2 m length
and M12 connector**Mode 1**

OS1/OS2 safety outputs active with inserted and locked actuator

Mode 2

OS1/OS2 safety outputs active with inserted actuator

NX series RFID safety switches in stainless steel with lock**NEW**

Compact dimensions: 30 x 30 x 94,5 mm
 Technopolymer housing, external metal parts in AISI 316L stainless steel
 Actuator with high coding level and metal parts in AISI 316L stainless steel
 Max. holding force: 6000 N
 Bistable operation
 Protection degrees IP67 and IP69K
 Status signalling RGB LED

Marks:

With M12 connector, axial

Mode 1

OS1/OS2 safety outputs active with inserted and locked actuator

Mode 2

OS1/OS2 safety outputs active with inserted actuator

Inputs

2 safety inputs IS1, IS2
 2 solenoid activation inputs IE1, IE2
 1 programming / reset input I3

Outputs

2 safety outputs OS1, OS2
 1 signalling output O3: closed guard
 1 signalling output O4: locked guard

Bistable with front hex-key release



NX B42AZ2SMK-F71
€ 313.57

NX P42AZ2SMK-F71
€ 313.57

Bistable with front hex-key release
With EDM input



NX B52AZ2SMK-F71
€ 313.57

NX P52AZ2SMK-F71
€ 313.57

Bistable with hex-key release on three sides



NX B42CZ2SMK-F71
€ 314.81

NX P42CZ2SMK-F71
€ 314.81

Bistable with hex-key release on three sides
With EDM input



NX B52CZ2SMK-F71
€ 314.81

NX P52CZ2SMK-F71
€ 314.81

Bistable with hexagonal key release at front and escape release button at back



NX B42AE2SMK-F71
€ 332.14

NX P42AE2SMK-F71
€ 332.14

Bistable with hexagonal key at front and escape release button at back
With EDM input



NX B52AE2SMK-F71
€ 332.14

NX P52AE2SMK-F71
€ 332.14

Bistable with hexagonal key release on three sides and escape release button at back



NX B42CE2SMK-F71
€ 333.37

NX P42CE2SMK-F71
€ 333.37

Bistable with hexagonal key release on three sides and escape release button at back
With EDM input



NX B52CE2SMK-F71
€ 333.37

NX P52CE2SMK-F71
€ 333.37

With M12 connector, axial

Mode 1

OS1/OS2 safety outputs active with inserted and locked actuator

Mode 2

OS1/OS2 safety outputs active with inserted actuator

Bistable with front hex-key release



NX B42AZ2SM0.2-F71

NX P42AZ2SM0.2-F71

Bistable with front hex-key release
With EDM input



NX B52AZ2SM0.2-F71

NX P52AZ2SM0.2-F71

Bistable with hex-key release on three sides



NX B42CZ2SM0.2-F71

NX P42CZ2SM0.2-F71

Bistable with hex-key release on three sides
With EDM input



NX B52CZ2SM0.2-F71

NX P52CZ2SM0.2-F71

With axial cable, 0.2 m length and M12 connector

Mode 1

OS1/OS2 safety outputs active with inserted and locked actuator

Mode 2

OS1/OS2 safety outputs active with inserted actuator

Bistable with hexagonal key release at front and escape release button at back



NX B42AE2SM0.2-F71

NX P42AE2SM0.2-F71

Bistable with hexagonal key at front and escape release button at back
With EDM input



NX B52AE2SM0.2-F71

NX P52AE2SM0.2-F71

Bistable with hexagonal key release on three sides and escape release button at back



NX B42CE2SM0.2-F71

NX P42CE2SM0.2-F71

Bistable with hexagonal key release on three sides and escape release button at back
With EDM input



NX B52CE2SM0.2-F71

NX P52CE2SM0.2-F71

With axial cable, 0.2 m length and M12 connector

Mode 1

OS1/OS2 safety outputs active with inserted and locked actuator

Mode 2

OS1/OS2 safety outputs active with inserted actuator

Fixing brackets for NX switches

NEW



AP X010
€ 11.39



AP X011
€ 25.66



AP X012
€ 26.35



AP X020
€ 14.91



AP X021
€ 16.39



AP X022
€ 14.99



AP X023
€ 13.12



For safety applications, connect with the safety modules shown on the side.
See technical data on page 64.

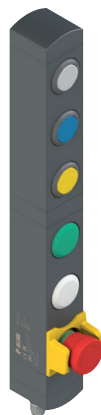
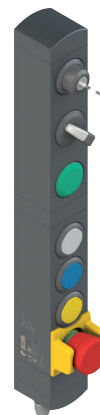
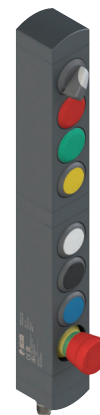
- CS AR-01•024
- CS AR-02•024
- CS AR-05•024
- CS AR-06•024
- CS AR-08•024
- CS AT-0••024
- CS AT-1••024
- CS MP•••••
- CS MF•••••

**BN series
control device units**

Technopolymer housing
Adjustable mounting holes
Versions with 1, 2, 3, 4, 6, 7 or 8 devices

Protection degree IP65

Supply voltage: 24 Vdc

Marks:   1 device
M12 connector
5-pole**BN AC1ZA01**
€ 71.593 devices
M12 connector, 12-pole1 device
M12 connector
5-pole**BN AC1ZA02**
€ 56.153 devices
M12 connector, 12-pole1 device
M12 connector
5-pole**BN AC1ZA03**
€ 65.483 devices
M12 connector, 12-pole1 device
M12 connector
5-pole**BN AC1ZA12**
€ 73.483 devices
M12 connector, 12-pole2 devices
M12 connector,
8-pole**BN AC2ZA01**
€ 89.114 devices
M12 connector, 12-pole2 devices
M12 connector,
8-pole**BN AC2ZA02**
€ 89.114 devices
M12 connector, 12-pole2 devices
M12 connector,
8-pole**BN AC2ZA03**
€ 73.674 devices
M23 connector, 12-pole2 devices
M12 connector,
8-pole**BN AC2ZA26**
€ 91.004 devices
M12 connector, 12-pole**BN AC3ZA01**
€ 112.616 devices
2x M12 connector, 12-pole**BN AC3ZA02**
€ 128.056 devices
M23 connector, 19-pole**BN AC3ZA03**
€ 128.056 devices
2x M12 connector, 12-pole**BN AC3ZB59**
€ 130.62**BN AC4ZA01**
€ 155.327 devices
2x M12 connector, 12-pole**BN AC4ZA02**
€ 143.097 devices
2x M12 connector, 12-pole**BN AC4ZA03**
€ 146.948 devices
2x M12 connector, 12-pole**BN AC4ZB19**
€ 144.99**BN AC6ZA01**
€ 166.02**BN AC6ZA02**
€ 176.45**BN AC6ZA40**
€ 197.25**BN AC7ZA01**
€ 257.61**BN AC7ZA07**
€ 259.51**BN AC8ZA01**
€ 236.68

Lenses for VN NG-AC
series buttons**
For the table listing
available lenses,
see page 76



BN series
IO-Link control device units

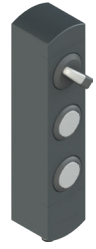
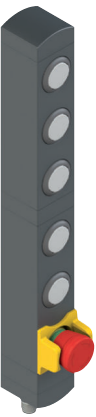
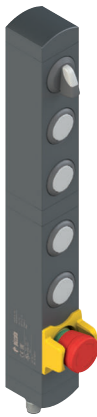
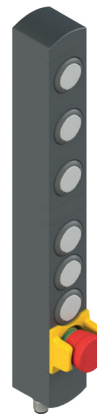
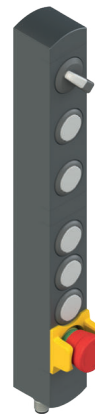
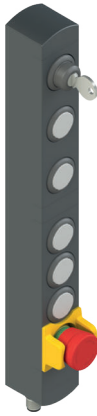
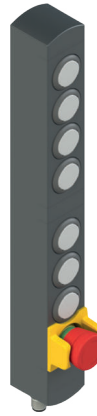
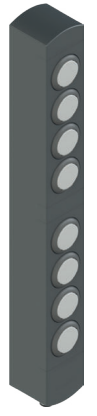
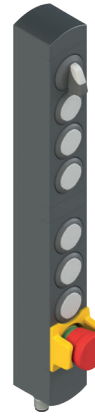
Two types of control devices available: illuminated RGB button, spring-return, and illuminated selector switch
 3 and 6-device versions

Protection degree IP65

Supply voltage: 24 Vdc

Marks:   

NEW

3 devices M12 connector, 4-pole	3 devices Two M12 connectors, 4-pole, and guard	3 devices Two M12 connectors, 4-pole, and guard	3 devices M12 connector, 4-pole	3 devices M12 connector, 4-pole
				
BN AC3EA08 € 141.22	BN AC3EA09 € 164.88	BN AC3EA10 € 176.70	BN AC3EA13 € 150.57	BN AC3EA14 € 150.57
4 devices Two M12 connectors, 4-pole and guard	4 devices M12 connector, 4-pole	4 devices Two M12 connectors, 4-pole and guard	4 devices Two M12 connectors, 4-pole and guard	4 devices Two M12 connectors, 4-pole and guard
				
BN AC4EA01 € 177.45	BN AC4EA02 € 153.79	BN AC4EA03 € 189.25	BN AC4EA04 € 207.60	BN AC4EA05 € 193.90
6 devices Two M12 connectors, 4-pole and guard	6 devices Two M12 connectors, 4-pole and guard	6 devices M12 connector, 4-pole	6 devices Two M12 connectors, 4-pole and guard	7 devices Two M12 connectors, 4-pole and guard
				
BN AC6EA07 € 247.81	BN AC6EA08 € 264.25	BN AC6EA09 € 224.15	BN AC6EA10 € 282.96	BN AC7EA01 € 261.31
7 devices Two M12 connectors, 4-pole and guard	7 devices Two M12 connectors, 4-pole and guard	8 devices Two M12 connectors, 4-pole and guard	8 devices M12 connector, 4-pole	8 devices Two M12 connectors, 4-pole and guard
				
BN AC7EA02 € 237.65	BN AC7EA03 € 273.12	BN AC7EA04 € 291.46	BN AC7EA05 € 277.76	BN AC7EA06 € 296.47
8 devices Two M12 connectors, 4-pole and guard	8 devices Two M12 connectors, 4-pole and guard	8 devices Two M12 connectors, 4-pole and guard	8 devices Two M12 connectors, 4-pole and guard	8 devices Two M12 connectors, 4-pole and guard
				
BN AC8EA01 € 274.82	BN AC8EA02 € 251.16	BN AC8EA03 € 286.62	BN AC8EA04 € 304.95	BN AC8EA05 € 286.62
				
BN AC8EA06 € 305.34				

P-KUBE 1 safety handles

Can be used with switches from the FD, FG and FY series

Self-centring metal pin

Integrated padlockable lock-out device

Thanks to the slotted brackets the handle can be adjusted on 3 different axes

Suitable for use with hinged and sliding doors, either with right or left closing

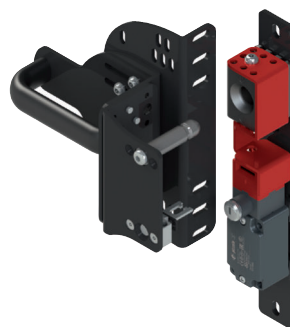
Switch and actuator not included in scope of delivery

For FG, FY series switches



VF AP-P11B-200P
€ 296.27

For FD series switches



VF AP-P11A-200P
€ 296.35

P-KUBE 2 safety handles

Can be used with switches from the NG series

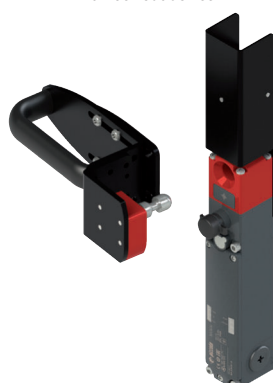
Thanks to the slotted brackets the handle can be adjusted on 3 different axes

Suitable for use with hinged and sliding doors, either with right or left closing

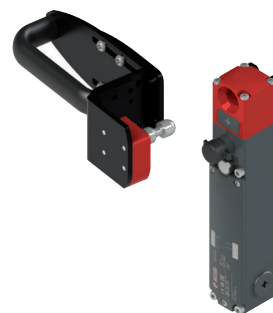
Optional lock-out device

Switch and actuator not included in scope of delivery

With lock-out device



AP G1A-111P
€ 116.44



AP G0B-111P
€ 80.98

P-KUBE Fast safety handles

Can be used with switches from the FD, FG and FY series

Compact, lightweight solution

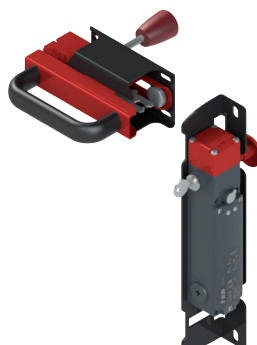
Internal lever for emergency escape

Integrated padlockable lock-out device

Suitable for use with hinged and sliding doors, either with right or left closing

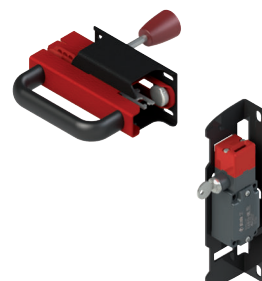
Switch not included in scope of delivery

For FG, FY series switches



VF AP-S13BP-300
€ 115.54

For FD series switches



VF AP-S13AP-301
€ 112.24

P-KUBE Super safety handles

Can be used with switches from the NG series

Suitable for use in particularly demanding work environments

Dual centring pin

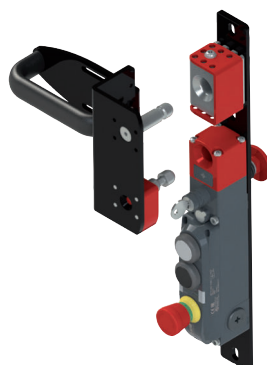
Integrated padlockable lock-out device

Thanks to the slotted brackets the handle can be adjusted on 3 different axes

Suitable for use with hinged and sliding doors, either with right or left closing

Switch and actuator not included in scope of delivery

For NG series switches



AP G2C-800P
€ 238.99



P-KUBE Lite safety handles

Can be used with safety switches from the FY and FG series

Flexible installation

Grip with satin chrome or white finish

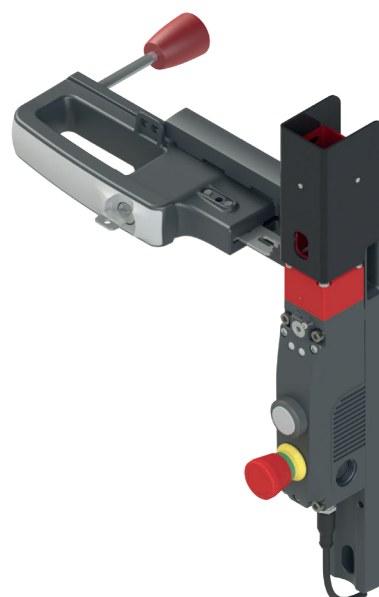
Button to block the handle in the open position

Suitable for use with sliding doors, with right or left closing

Device with key for locking the handle in the open position

Internal lever for emergency escape

With optional lock-out device on bracket



With chrome grip and internal lever for emergency escape

With chrome grip, block button and internal lever for emergency escape

With white grip and internal lever for emergency escape

With white grip, block button and internal lever for emergency escape



No lock



With standard lock



With tubular lock

ANY09ZZ9P
€ 42.59

ANY09ZZ1P
€ 46.03

ANY01ZZ9P
€ 42.59

ANY01ZZ1P
€ 46.03

ANY09EA9P
€ 53.69

ANY09EA1P
€ 57.14

ANY01EA9P
€ 53.69

ANY01EA1P
€ 57.14

ANY09TA9P
€ 55.07

ANY09TA1P
€ 58.51

ANY01TA9P
€ 55.07

ANY01TA1P
€ 58.51

With chrome grip and internal lever for emergency escape.
With lock-out device on bracket

With chrome grip, block button and internal lever for emergency escape.
With lock-out device on bracket

With white grip and internal lever for emergency escape.
With lock-out device on bracket

With white grip, block button and internal lever for emergency escape.
With lock-out device on bracket



No lock



With standard lock



With tubular lock

ANY19ZZ9P
€ 71.84

ANY19ZZ1P
€ 75.28

ANY11ZZ9P
€ 71.84

ANY11ZZ1P
€ 75.28

ANY19EA9P
€ 82.94

ANY19EA1P
€ 86.39

ANY11EA9P
€ 82.94

ANY11EA1P
€ 86.39

ANY19TA9P
€ 84.32

ANY19TA1P
€ 87.76

ANY11TA9P
€ 84.32

ANY11TA1P
€ 87.76

P-KUBE Krome safety handles

Can be used with switches from the NS and NG series

Technopolymer grip

Satin chrome and illuminated white finishes

Control button integrated into grip

Grip illumination with RGB LED

Internal metal fixing plates

Suitable for use with hinged and sliding doors, either with right or left closing, same individual product code

Supply voltage 24 Vdc

Protection degree IP65

Optional lock-out device

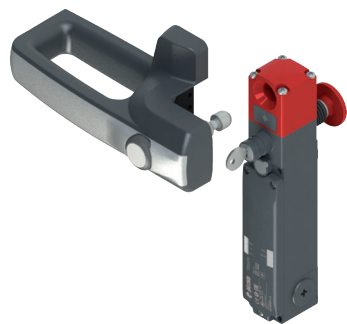
Switch and actuator not included in scope of delivery

Marks:    

Connection cable not necessary



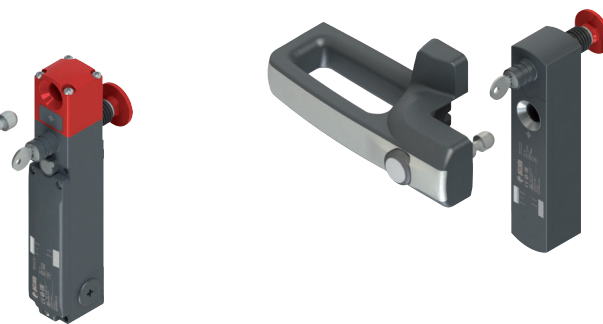
Without control device



With satin chrome grip, for NS series switches



AN S9A000A
€ 51.31



With satin chrome grip, for NG series switches



AN G9A000A
€ 55.15

With satin chrome grip, for NS series switches



With satin chrome grip, for NG series switches



With illuminated grip (white), for NS series switches



With illuminated grip (white), for NG series switches



With 3 m long PVC cable



Without control device



With spring-return button, 1NO, white, illuminated



With spring-return button, 1NO, red, illuminated



With spring-return button, 1NO, green, illuminated



With spring-return button, 1NO, yellow, illuminated



With spring-return button, 1NO, blue, illuminated



With spring-return button, 1NO, black, non-illuminated

With 0.15 m long PVC cable and M12 connector



Without control device



With spring-return button, 1NO, white, illuminated



With spring-return button, 1NO, red, illuminated



With spring-return button, 1NO, green, illuminated



With spring-return button, 1NO, yellow, illuminated



With spring-return button, 1NO, blue, illuminated



With spring-return button, 1NO, black, non-illuminated

With satin chrome grip, for NS series switches



With satin chrome grip, for NG series switches



With illuminated grip (white), for NS series switches



With illuminated grip (white), for NG series switches



/	/	AN S1B000A-PN3 € 105.43	AN G1B000A-PN3 € 109.27
AN S9A001A-PN3 € 86.78	AN G9A001A-PN3 € 90.61	AN S1B001A-PN3 € 119.82	AN G1B001A-PN3 € 123.66
AN S9A002A-PN3	AN G9A002A-PN3 € 90.61	AN S1B002A-PN3 € 119.82	AN G1B002A-PN3 € 123.66
AN S9A003A-PN3 € 86.78	AN G9A003A-PN3 € 90.61	AN S1B003A-PN3 € 119.82	AN G1B003A-PN3 € 123.66
AN S9A004A-PN3	AN G9A004A-PN3 € 90.61	AN S1B004A-PN3 € 119.82	AN G1B004A-PN3 € 123.66
AN S9A005A-PN3 € 86.78	AN G9A005A-PN3 € 90.61	AN S1B005A-PN3 € 119.82	AN G1B005A-PN3 € 123.66
AN S9A008A-PN3 € 86.78	AN G9A008A-PN3 € 90.61	AN S1B008A-PN3 € 119.82	AN G1B008A-PN3 € 123.66

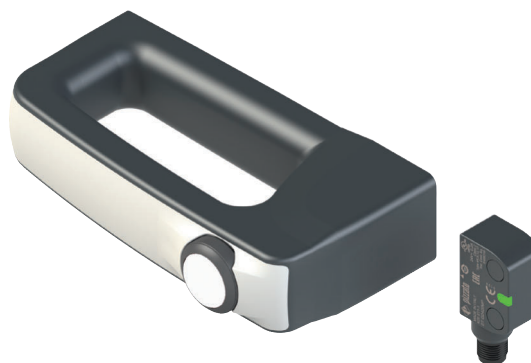
/	/	AN S1B000A-PM0.2 € 111.84	AN G1B000A-PM0.2 € 115.67
AN S9A001A-PM0.2 € 93.20	AN G9A001A-PM0.2 € 97.03	AN S1B001A-PM0.2 € 127.15	AN G1B001A-PM0.2 € 130.99
AN S9A002A-PM0.2 € 93.20	AN G9A002A-PM0.2 € 97.03	AN S1B002A-PM0.2 € 127.15	AN G1B002A-PM0.2 € 130.99
AN S9A003A-PM0.2 € 93.20	AN G9A003A-PM0.2 € 97.03	AN S1B003A-PM0.2 € 127.15	AN G1B003A-PM0.2 € 130.99
AN S9A004A-PM0.2 € 93.20	AN G9A004A-PM0.2 € 97.03	AN S1B004A-PM0.2 € 127.15	AN G1B004A-PM0.2 € 130.99
AN S9A005A-PM0.2 € 93.20	AN G9A005A-PM0.2 € 97.03	AN S1B005A-PM0.2 € 127.15	AN G1B005A-PM0.2 € 130.99
AN S9A008A-PM0.2 € 93.20	AN G9A008A-PM0.2 € 97.03	AN S1B008A-PM0.2 € 127.15	AN G1B008A-PM0.2 € 130.99



5G

P-KUBE Smart safety handles

Usable with ST series RFID safety sensors
Possibility of application with horizontal or vertical handle
Satin chrome and illuminated white finishes
Control button integrated into grip
Grip illumination with RGB LED
Direct fixing on the grip or through solid inner plate
Suitable for use with hinged and sliding doors, either right or left closing, same individual product code
Supply voltage 24 Vdc
Protection degree IP65
ST series sensor not included
Marks:    



With satin chrome grip with fixing on internal metal plate

With satin chrome grip with fixing on the grip



ANT9A000A1
€ 30.21

ANT9A100A1
€ 23.70

With RFID at a high coding level for ST series sensors.
Connection cable not necessary



Without control device

With 3 m long PVC cable and RFID at a high coding level for ST series sensors



Without control device



With spring-return button, 1NO, white, illuminated



With spring-return button, 1NO, red, illuminated



With spring-return button, 1NO, green, illuminated



With spring-return button, 1NO, yellow, illuminated



With spring-return button, 1NO, blue, illuminated



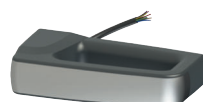
With spring-return button, 1NO, black, non-illuminated

With satin chrome grip with fixing on internal metal plate

With satin chrome grip with fixing on the grip

With illuminated white grip with fixing on the internal metal plate

With illuminated white grip with fixing on the grip



With 0.15 m long PVC cable and M12 connector and RFID at a high coding level for ST series sensors



Without control device



With spring-return button, 1NO, white, illuminated



With spring-return button, 1NO, red, illuminated



With spring-return button, 1NO, green, illuminated



With spring-return button, 1NO, yellow, illuminated



With spring-return button, 1NO, blue, illuminated



With spring-return button, 1NO, black, non-illuminated

With satin chrome grip with fixing on internal metal plate

With satin chrome grip with fixing on the grip

With illuminated white grip with fixing on the internal metal plate

With illuminated white grip with fixing on the grip



/

/

ANT1B000A1-PM0.2

ANT1B100A1-PM0.2

ANT9A001A1-PM0.2

ANT9A101A1-PM0.2

ANT1B001A1-PM0.2

ANT1B101A1-PM0.2

ANT9A002A1-PM0.2

ANT9A102A1-PM0.2

ANT1B002A1-PM0.2

ANT1B102A1-PM0.2

ANT9A003A1-PM0.2

ANT9A103A1-PM0.2

ANT1B003A1-PM0.2

ANT1B103A1-PM0.2

ANT9A004A1-PM0.2

ANT9A104A1-PM0.2

ANT1B004A1-PM0.2

ANT1B104A1-PM0.2

ANT9A005A1-PM0.2

ANT9A105A1-PM0.2

ANT1B005A1-PM0.2

ANT1B105A1-PM0.2

ANT9A008A1-PM0.2

ANT9A108A1-PM0.2

ANT1B008A1-PM0.2

ANT1B108A1-PM0.2

Lock-out devices

Can be used with switches from the NS, NG, FG and FY series

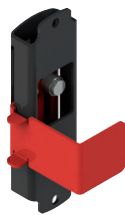
Made entirely of metal

Prevents unexpected start-up of the machine

Mechanical and RFID signal shielding of actuator

Compatible with P-KUBE 2, P-KUBE Krome and P-KUBE Lite safety handles.

For NS series switches,
mounting on the left side of
the switch



LK S1S001
€ 37.84

For NS series switches,
mounting on the right side of
the switch



LK S1D001
€ 37.84

For NG series switches



AP G1Z-000Z
€ 33.90

For FY, FG series switches



LKY1X001

Connection gateway for safety devices**P-Connect connection gateway for safety devices**

Aluminium housing

Protection degree IP65

Operating temperature -15 °C ... +50 °C

3 to 5 LEDs integrated in the device for status indication

Devices can be connected in series

Connection: PROFINET — PROIsafe

EtherNet/IP™ - CIP Safety™

EtherCAT® - Safety over EtherCAT®

Marks:



Solution with NG/NS series switches, P-KUBE Krome safety handle and BN series control device units

Solutions with NG and NS series switch, P-KUBE Krome safety handle, BN series control device unit, signalling device, safety device with OSSD safety outputs and control device unit including emergency stop

Solution with NG/NS series switches with integrated controls and P-KUBE Krome safety handles

Solution with NG/NS/NX series switches featuring integrated control device units, ST series RFID safety sensors (up to 6), and BN series control unit with 3 or 4 control devices (2 or 3 illuminated buttons and one emergency stop button) (up to 4)

NEW



BP A1PL2001



BP A1PL2002



BP A1PL2003



BP A1PL2004



PROFINET - PROIsafe



BP A1CL2001



BP A1CL2002



BP A1CL2003



BP A1CL2004



EtherNet/IP™ - CIP Safety™



BP A1EL2001



BP A1EL2002



BP A1EL2003



BP A1EL2004



EtherCAT® - Safety over EtherCAT®

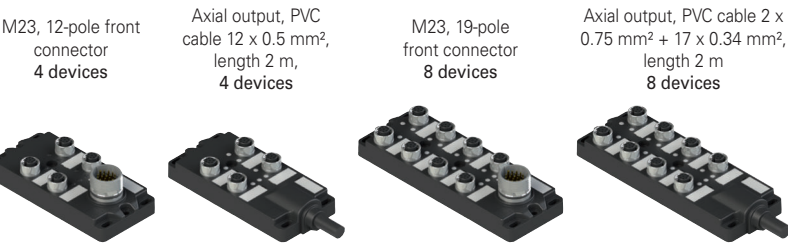
NEW



Passive distribution box

Passive distribution box BC series

Technopolymer housing
Protection degree up to IP67
Various models available for I/O: M23 connector, 19-pole cable, 12-pole cable
Versions with 4 or 8 M12 connectors available
Integrated signalling LEDs
Marks:  



One common input I3/IE1 for all devices	BC 1Z4A1A1FSK € 125.31	BC 1Z4A1A1AF2 € 116.95	BC 2Z8A1A1FTK € 158.72	BC 2Z8A1A1AL2 € 158.72
Independently connected inputs I3/IE1	BC 1Z4A2A1FSK € 125.31	BC 1Z4A2A1AF2 € 116.95	/	/
Independently connected inputs I3/IE1 for 6 devices and one common input for two additional devices	/	/	BC 2Z8A3A1FTK € 158.72	BC 2Z8A3A1AL2 € 158.72

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

Technopolymer housing or metal housing

One or three conduit entries

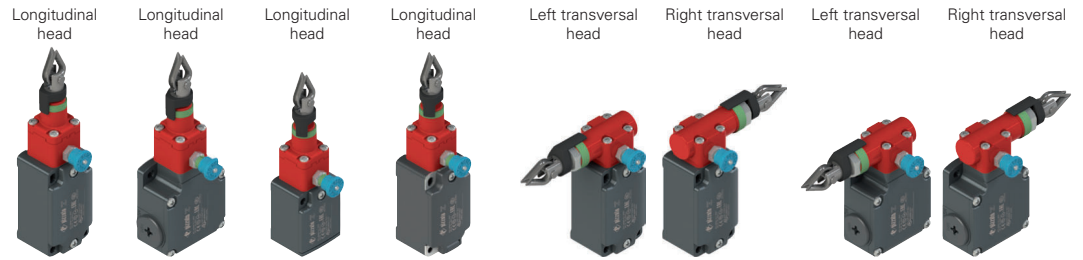
Protection degree IP67

Marks:      

1NO+1NC contacts

2NC contacts

1NO+2NC contacts



FD 1878-M2 € 18.02	FL 1878-M2 € 18.37	FC 3378-M2 € 19.02	FP 1878-M2 € 15.99	FD 1883-M2 € 27.03	FD 1884-M2 € 27.38	FL 1883-M2 € 27.38	FL 1884-M2 € 27.39
FD 978-M2 € 18.60	FL 978-M2 € 18.95	FC 3478-M2 € 19.67	FP 978-M2 € 16.57	FD 983-M2 € 27.61	FD 984-M2 € 27.62	FL 983-M2 € 27.98	FL 984-M2 € 27.98
FD 2078-M2 € 21.26	FL 2078-M2 € 21.61	/	FP 2078-M2 € 19.23	FD 2083-M2 € 30.26	FD 2084-M2 € 30.28	FL 2083-M2 € 30.63	FL 2084-M2 € 30.63

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

Technopolymer housing or metal housing

One or three conduit entries

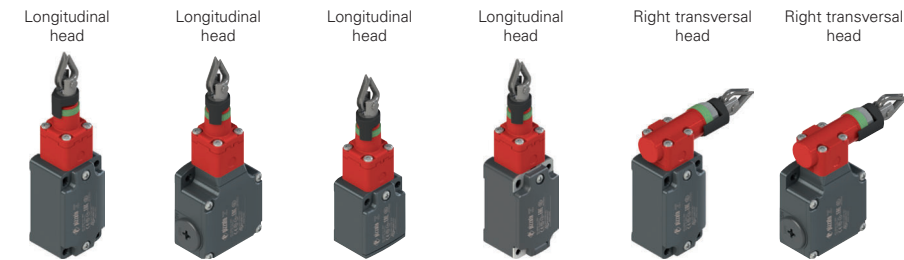
Protection degree IP67

Marks:      

1NO+1NC contacts

2NC contacts

1NO+2NC contacts



FD 1879-M2 € 15.80	FL 1879-M2 € 16.15	FC 3379-M2 € 16.80	FP 1879-M2 € 13.77	FD 1880-M2 € 19.64	FL 1880-M2 € 20.01
FD 979-M2 € 16.38	FL 979-M2 € 16.74	FC 3479-M2 € 17.45	FP 979-M2 € 14.35	FD 980-M2 € 20.24	FL 980-M2 € 20.59
FD 2079-M2 € 19.03	FL 2079-M2 € 19.40	/	FP 2079-M2 € 17.00	FD 2080-M2 € 22.89	FL 2080-M2 € 23.24

Accessories for rope installation

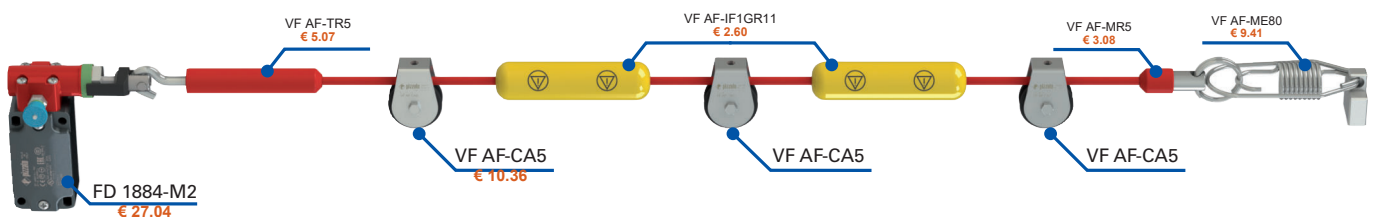


VF AF-TR5 € 3.73	VF AF-TR8 € 3.73	VF AF-MR5	VF AF-TR2X € 6.01	VF T870 € 0.75	VF AF-ME78 € 7.55	VF AF-ME80	VF F05-200	VF AF-IF1GR11	VF AF-CA5	VF AF-CA10 € 11.66
Adjustable stay bolt	Stay bolt	End clamp	Adjustable stay bolt in stainless steel	Stay bolt	Safety spring for longitudinal heads	Safety spring for transversal heads	Rope Ø 5 mm. Spool with 200 m	Rope function indicator "V"	Stainless steel pulley	Angular pulley, stainless steel

Accessory sets for rope installation - FAST line

	Article	Set content	
	VF AF-KT10M0 € 15.78	1x VF AF-TR5 1x VF AF-MR5 1x VF F05-010	
	VF AF-KT20M0 € 23.14	1x VF AF-TR5 1x VF AF-MR5 1x VF F05-020	
	VF AF-KT35M0 € 36.22	1x VF AF-TR5 1x VF AF-MR5 1x VF F05-035	

Application example



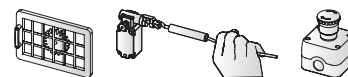


The clear objectives in the development of the CS series safety modules were safety and reliability. The design, development and production of these products have been approached with the passion for quality that characterises Pizzato Elettrica.

During the design phase, the components were deliberately oversized and the circuit diagrams were verified by third-party and independent bodies. Quality was the underlying factor for choosing the components. Basic elements, such as the relays with forcibly guided contacts, were chosen from leading manufacturers. The production process, done entirely in-house by Pizzato Elettrica, is controlled by a functional check of 100% of all products. Every single part produced is tested in a computerized testing station that, only if the product passes all the electrical tests, prints the label of the safety module, identified by a precise serial number.

Particular attention has been paid to the connection type. Here, the customer can choose between fixed terminals, a removable connector, screw connections or spring connections. Additionally, the product range includes different supply voltages with wide tolerances of the nominal values, so as to be compatible for use in less industrialized countries as well.

Safety modules for emergency stops and end position monitoring for movable guards



6A

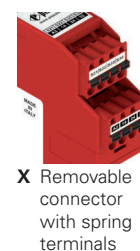
Product code	Supply voltage	Output contacts instantaneous	For applications up to			Start		Inputs of opposite potentials	Equipotential inputs	Parallel start (24 Vdc only)	Input types ⑥				Housing dimensions (mm)
			PL	SIL	Saf. cat.	autom. & manual	monitored								
CS AR-01V024	24 Vac/dc	2NO+1NC	e	3	4	■	■	■	■	■	■	■	■	-	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	④ 24 Vac/dc	4NO+1NC	e	3	4	■	■	■	-	■	■	-	-	-	22.5 x 149
CS AR-08VU12	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
CS AR-91V024	24 Vac/dc	2NO+1PNP	e	3	4	■	■	■	-	■	■	-	■	-	22.5 x 114

Code structure

CS AR-01V024
€ 97.27

Connection type	
V	Screw terminals
M	Connector with screw terminals
X	Connector with spring terminals

Supply voltage	
U12	12 Vdc
U24	24 Vdc
024	24 Vac/dc
E02	10 ... 30 Vdc
120	120 Vac
230	230 Vac

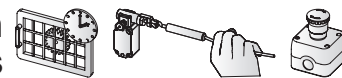


6B Safety modules for 4-wire safety mats and safety bumpers



Product code	Supply voltage	Output contacts instantaneous	For applications up to			Start		Inputs of opposite potentials	Equipotential inputs	Parallel start (24 Vdc only)	Input types ⑥				Housing dimensions (mm)
			PL	SIL	Saf. cat.	autom. & manual	monitored								
CS AR-51V024 € 85.15	24 Vac/dc	2NO	e	3	4	■	■	■	-	-	■	-	-	■	22.5 x 114

6C Safety modules for emergency stops and end position monitoring for movable guards with delayed contacts



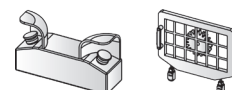
Product code	Supply voltage	Output contacts		For applications up to			Start		Inputs of opposite potentials	Equipotential inputs	Parallel start (24 Vdc only)	Input types ⑥				Housing dimensions (mm)
		instantaneous	delayed	PL	SIL	Saf. cat.	autom. & manual	monitored								
CS AT-0 ③ V024	24 Vac/dc	2NO+1NC	2NO	e	3	②	■	■	■	■	■	■	■	■	-	22.5 x 114
CS AT-0 ③ V120	120 Vac	2NO+1NC	2NO	e	3	②	■	■	■	■	-	■	■	■	-	22.5 x 114
CS AT-0 ③ V230	230 Vac	2NO+1NC	2NO	e	3	②	■	■	■	■	-	■	■	■	-	22.5 x 114
CS AT-1 ③ V024	24 Vac/dc	3NO	2NO	e	3	②	■	■	■	■	■	■	■	■	-	22.5 x 114
CS AT-1 ③ V120	120 Vac	3NO	2NO	e	3	②	■	■	■	■	-	■	■	■	-	22.5 x 114
CS AT-1 ③ V230	230 Vac	3NO	2NO	e	3	②	■	■	■	■	-	■	■	■	-	22.5 x 114
CS AT-3 ③ V024	24 Vac/dc	2NO	1NO	e	3	②	■	■	■	-	-	■	-	■	-	22.5 x 114

6D Safety timer modules



Product code	Supply voltage	Function	Output contacts delayed	For applications up to			Start		Inputs of opposite potentials	Equipotential inputs	Parallel start (24 Vdc only)	Input types ⑥				Housing dimensions (mm)
				PL	SIL	Saf. cat.	autom. & manual	monitored								
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

6E Safety modules for two-hand controls or synchronism monitoring



Product code	Supply voltage	Output contacts instantaneous	Safety category	Start		Inputs of opposite potentials	Equipotential inputs	Parallel start (24 Vdc only)	Input types ⑥				Housing dimensions (mm)
				autom. & manual	monitored								
CS DM-01V024 € 142.22	24 Vac/dc	3NO+1NC	IIIC (EN ISO 13851)	-	-	■	-	-	■	-	-	-	22,5 x 114
CS DM-01V120 € 154.01	120 Vac	3NO+1NC	IIIC (EN ISO 13851)	-	-	■	-	-	■	-	-	-	22,5 x 114
CS DM-01V230 € 154.01	230 Vac	3NO+1NC	IIIC (EN ISO 13851)	-	-	■	-	-	■	-	-	-	22,5 x 114
CS DM-02V024 € 124.46	24 Vac/dc	2NO	IIIC (EN ISO 13851)	-	-	■	-	-	■	-	-	-	22,5 x 114
CS DM-02V120 € 136.25	120 Vac	2NO	IIIC (EN ISO 13851)	-	-	■	-	-	■	-	-	-	22,5 x 114
CS DM-02V230 € 136.25	230 Vac	2NO	IIIC (EN ISO 13851)	-	-	■	-	-	■	-	-	-	22,5 x 114
CS DM-20V024 € 50.14	24 Vac/dc	2NO	IIIA (EN ISO 13851)	-	-	■	-	-	■	-	-	-	22,5 x 114
CS DM-20V120 € 61.93	120 Vac	2NO	IIIA (EN ISO 13851)	-	-	■	-	-	■	-	-	-	22,5 x 114
CS DM-20V230 € 61.93	230 Vac	2NO	IIIA (EN ISO 13851)	-	-	■	-	-	■	-	-	-	22,5 x 114

Legend

■ Available for this article
- Not available for this article

① Depending on the base module

② Category 4 for instantaneous contacts;
Category 3 for delayed contacts.

⑥ Input type

electromechanical contacts

semiconductor outputs (e.g. light barriers)

magnetic safety sensors

4-wire safety mats and safety bumpers

③ Release times for delayed contacts
0 fixed time

1 adjustable, 0.3 ... 3 s, 0.3 s steps

2 adjustable, 1 ... 10 s, 1 s steps

3 adjustable, 3 ... 30 s, 3 s steps

4 adjustable, 30 ... 300 s, 30 s steps

④ Exclusively for module CS AR-07, there is no version with screw terminals.

⑤ Release 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

Quality marks:





Safety modules for motor standstill, speed and motor direction of rotation monitoring



6F

Product code	Supply voltage	Output contacts instantaneous	For applications up to			Safety function			Input type		Housing dimensions (mm)
			PL	SIL	Saf. cat.	Detection motor standstill	Detection motor speed	Direction-of-rotation detection	Sensorless	With proximity sensor	
CS AM11P1•U	24 Vdc	2 OSSD	e	3	4	■	-	-	■	■	22,5 x 114
CS AM12P1•U	24 Vdc	3 NO	e	3	4	■	-	-	■	■	45 x 114
CS AM14P1•U	24 Vdc	2NO + 1NC	e	3	4	■	-	-	■	■	45 x 114
CS AM21P1•U	24 Vdc	2 OSSD	e	3	4	-	■	■	■	■	22,5 x 114
CS AM22P1•U	24 Vdc	3 NO	e	3	4	-	■	■	■	■	45 x 114
CS AM23P1•U	24 Vdc	3 NO + 3NO	e	3	4	-	■	■	■	■	45 x 114
CS AM31P1•U	24 Vdc	2 OSSD	e	3	4	■	■	■	■	■	22,5 x 114
CS AM33P1•U	24 Vdc	3 NO + 3NO	e	3	4	■	■	■	■	■	45 x 114

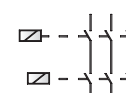
Legend

- Available for this article
- Not available for this article

Quality marks:



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



6G

Product code	Supply voltage	Output contacts			For applications up to			Delay time upon de-energizing	Inputs of opposite potentials	Equipotential inputs	Input types ⑥				Housing dimensions (mm)
		instantaneous	delayed	feedback	PL	SIL	Saf. cat.				①	②	③	④	
CS ME-01V024 € 98.74	24 Vac/dc	5NO+1NC	-	1NC	①	①	①	-	①	①	■	-	-	-	22,5 x 114
CS ME-02VU24 € 97.76	24 Vdc	4NO+2NC	-	1NC	①	①	①	-	①	①	■	-	-	-	22,5 x 114
CS ME-03VU24 € 62.26	24 Vdc	3NO	-	1NC	①	①	①	-	-	■	■	■	-	-	22,5 x 91
CS ME-20VU24-TF ⑤	24 Vdc	-	4NO+2NC	1NC	①	①	①	up to 3 s (fix)	①	①	■	-	-	-	22,5 x 114
CS ME-31VU24-TS12	24 Vdc	-	4NO+2NC	1NC	①	①	①	1 ... 12 s (adjustable)	①	①	■	-	-	-	45 x 114

Legend

- Available for this article
- Not available for this article
- ① Depending on the base module
- ② Category 4 for instantaneous contacts; Category 3 for delayed contacts.
- ③ Release times for delayed contacts
 - 0 fixed time
 - 1 adjustable, 0.3 ... 3 s, 0.3 s steps
 - 2 adjustable, 1 ... 10 s, 1 s steps
 - 3 adjustable, 3 ... 30 s, 3 s steps
 - 4 adjustable, 30 ... 300 s, 30 s steps
- ④ Exclusively for module CS AR-07, there is no version with screw terminals.
- ⑤ Release 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 Input type
 - ① electromechanical contacts
 - ② semiconductor outputs (e.g. light barriers)
 - ③ magnetic safety sensors
 - ④ 4-wire safety mats and safety bumpers

Quality marks:



Code structure

€ 97.27
CS AR-01V024

Safety function		Supply voltage	
AR	For emergency stops and end position monitoring for movable guards	024	24 Vac/dc
		120	120 Vac
		230	230 Vac
		Connection type	
AT	For emergency stops and end position monitoring for movable guards with delayed contacts upon opening of the inputs	V	Screw terminals
FS	Safety timer modules	M	Connector with screw terminals
DM	For two-hand controls or synchronism monitoring	X	Connector with spring terminals
ME	Expansion modules		



V morsetti a vite



M connettore estraibile con morsetti a vite



X connettore estraibile con morsetti a molla


GEMNIS
Quality marks:


The CS MP series programmable safety modules are the result of Pizzato Elettrica's long experience 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 product series has been developed for manufacturers of machines with a low to average number of safety functions. As an indication, these modules can manage applications which are equivalent to the functions carried out by 3 to 4 traditional electromechanical safety modules, up to circuits with dozens of inputs.

The **Gemis Studio** program is a graphic development environment for the creation, simulation and debugging of programs that are uploaded to the corresponding modules of the Gemis family. **This software is licensed free of charge to users wishing to program these modules, subject to prior registration at www.gemis.com**



€ 396.03



€ 380.46



€ 421.19



€ 396.51



€ 406.20

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 4-20 mA analogue signals (Cx)	/	/	/	/	/
Inputs for frequency signals from 0 to 4 kHz (speed monitor) (Fx)	/	/	/	/	4
Test outputs (Tx)	8	4	4	4	4
Semiconductor signalling output circuits (Ox)	4	4	4	4	4
Semiconductor safety output circuits (OSx)	/	4PNP	/	/	4PNP
Safety relay circuits	3NO	/	3NO+1NO	3NO	/



€ 389.62



€ 433.23



€ 399.69



€ 473.54

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 4-20 mA analogue signals (Cx)	/	2	/	/
Inputs for frequency signals from 0 to 4 kHz (speed monitor) (Fx)	/	/	/	/
Test outputs (Tx)	4	4	4	8
Semiconductor signalling output circuits (Ox)	12	4	/	4
Semiconductor safety output circuits (OSx)	4PNP	4PNP	8PNP	/
Safety relay circuits	/	/	/	3NO



€ 462.90



€ 457.96



€ 498.69



€ 472.56

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 4-20 mA analogue signals (Cx)	/	/	/	/
Inputs for frequency signals from 0 to 4 kHz (speed monitor) (Fx)	/	/	/	/
Test outputs (Tx)	12	4	4	4
Semiconductor signalling output circuits (Ox)	4	4	4	12
Semiconductor safety output circuits (OSx)	4PNP	4PNP	/	4PNP
Safety relay circuits	/	/	3NO+1NO	/

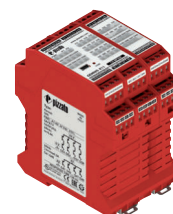


€ 507.87

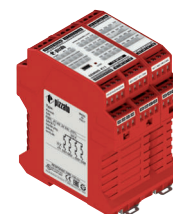
Article	CS MP306M0	CS MP307M0	CS MP308M0	CS MP309M0
Dimensions (H x W x D)	111.5 x 67.5 x 99 mm	111.5 x 67.5 x 99 mm	111.5 x 67.5 x 99 mm	111.5 x 67.5 x 99 mm
Safety inputs (Ix)	20	8	24	32
Decoupled digital inputs (Jx)	/	4	/	/
Inputs for 4-20 mA analogue signals (Cx)	/	2	/	/
Inputs for frequency signals from 0 to 4 kHz (speed monitor) (Fx)	/	4	/	/
Test outputs (Tx)	4	4	4	4
Semiconductor signalling output circuits (Ox)	12	4	8	/
Semiconductor safety output circuits (OSx)	/	4PNP	8PNP	8PNP
Safety relay circuits	3NO+1NO	/	/	/



€ 535.27



€ 485.19



€ 476.01

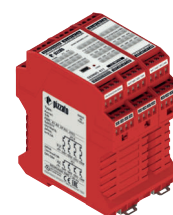


€ 509.07

Article	CS MP310M0	CS MP311M0	CS MP312M0	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)	8	20	16	40
Decoupled digital inputs (Jx)	8	/	4	/
Inputs for 4-20 mA analogue signals (Cx)	/	2	/	/
Inputs for frequency signals from 0 to 4 kHz (speed monitor) (Fx)	8	/	4	/
Test outputs (Tx)	4	4	8	4
Semiconductor signalling output circuits (Ox)	4	4	/	12
Semiconductor safety output circuits (OSx)	4PNP	4PNP	8PNP	4PNP
Safety relay circuits	/	/	/	/



€ 513.89



€ 505.01



€ 530.74



€ 556.18

Article	CS MP402M0	CS MP403M0	CS MP406M0
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)	32	40	32
Decoupled digital inputs (Jx)	/	/	/
Inputs for 4-20 mA analogue signals (Cx)	/	/	/
Inputs for frequency signals from 0 to 4 kHz (speed monitor) (Fx)	/	/	/
Test outputs (Tx)	12	4	4
Semiconductor signalling output circuits (Ox)	8	8	20
Semiconductor safety output circuits (OSx)	8PNP	8PNP	4PNP
Safety relay circuits	/	/	/



€ 551.25



€ 539.92

For the latest news visit the website www.gemnis.com



An increasing number of users requires products which 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 arise mainly when the safety functions are typically greater than 3 or 4, 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 too great an overhead in relation to problem complexity. With the CS MF series of Gemnis, Pizzato Elettrica offers a series of electronic modules which are pre-programmed for specific customer applications or for generic safety macro-functions commonly used in industrial contexts.

The General Catalogue Safety (available from www.pizzato.com) lists some of the pre-programmed products for generic macro-functions commonly used in the industrial sector. These products are available for individual purchase. Any customer requiring a product pre-programmed to their particular specification can contact the Pizzato Elettrica technical department (minimum volumes are requested). All Gemnis series products are able to provide circuit solutions at SIL 3 (EN IEC 62061), PL e (EN ISO 13849-1) or category 4 (EN ISO 13849-1) levels.

CS MF201M0-P●●

Hardware code	Program code
●● Hardware code	P●● Program code

Quality marks:



Connection type	Supply voltage
M Connector with screw terminals	0 24 Vdc
X Connector with spring terminals	

Connectors with cable

Con- nection type	Connector type	No. of poles	Cable sheath	Cable length (L)						Page
				3 metres	5 metres	10 metres	20 metres	30 metres	Other lengths available	
M8x1 female			PVC	VF CA4PD3K € 8.48	VF CA4PD5K € 10.69	VF CA4PD10K	VF CA4PD20K	*	VF CA4PD2K 2 metres	73
			PUR	*	VF CA4UD5K	*	*	*	VF CA4UD1K 1 metre VF CA4UD2K 2 metres	
M12x1 male			PVC	VF CF4PD3M	*	*	*	*	VF CF4PD2M 2 metres	73
			PVC	VF CF5PD3M € 13.05	VF CF5PD5M	*	*	*	*	
			PVC	VF CF8PD3M € 20.49	VF CF8PD5M	VF CF8PD10M	*	*	*	
			PVC	VF CF8PG3M	*	*	*	*	*	
M12x1 female			PVC	VF CA4PD3M € 8.76	VF CA4PD5M € 11.43	VF CA4PD10M € 16.55	*	*	VF CA4PD1M 1 metre VF CA4PD2M 2 metres VF CA4PD4M 4 metres	73
			PUR	VF CA4UD3M	VF CA4UD5M	VF CA4UD10M	*	*	VF CA4UD2M 2 metres	
			PVC	VF CA5PD3M € 8.97	VF CA5PD5M € 11.78	VF CA5PD10M € 17.84	VF CA5PD20M	VF CA5PD30M	VF CA5PD1M 1 metre VF CA5PD2M 2 metres VF CA5PD4M 4 metres VF CA5PD15M 15 metres VF CA5PD25M 25 metres	
			PUR	VF CA5UD3M	VF CA5UD5M	VF CA5UD10M	*	*	VF CA5UD1M 1 metre VF CA5UD2M 2 metres VF CA5UD15M 15 metres	
			PVC	VF CA8PD3M € 11.87	VF CA8PD5M € 14.60	VF CA8PD10M € 22.53	VF CA8PD20M € 34.91	VF CA8PD30M	VF CA8PD1M 1 metre VF CA8PD2M 2 metres VF CA8PD15M 15 metres	
			PUR	VF CA8UD3M	VF CA8UD5M VF CA8UD5M-X € 22.22	VF CA8UD10M VF CA8UD10M-X	*	VF CA8UD30M VF CA8UD30M-X	VF CA8UD2M 2 metres VF CA8UD15M 15 metres VF CA8UD15M-X 15 metres VF CA8UD25M 25 metres VF CA8UD25M-X 25 metres VF CA8UD40M-X 40 metres	
			PVC	VF CA12PD3M € 22.09	VF CA12PD5M € 27.37	VF CA12PD10M € 43.98	VF CA12PD20M € 62.73 VF CA12PD20M-X	VF CA12PD30M € 73.42	VF CA12PD1M 1 metre VF CA12PD2M 2 metres VF CA12PD15M 15 metres VF CA12PD25M 25 metres	
			PUR	*	VF CA12UD5M VF CA12UD5M-X	VF CA12UD10M VF CA12UD10M-X € 47.09	VF CA12UD20M VF CA12UD20M-X	VF CA12UD30M VF CA12UD30M-X	VF CA12UD1M 1 metre VF CA12UD40M-X 40 metres	

Connectors with cable

Con- nection type	Connector type	No. of poles	Cable sheath	Cable length (L)						Page
				3 metres	5 metres	10 metres	20 metres	30 metres	Other lengths available	
M12x1 female			PVC	VF CA4PG3M	VF CA4PG5M	VF CA4PG10M	*	*	VF CA4PG1M 1 metre VF CA4PG2M 2 metres	73
			PUR	VF CA4UG3M	VF CA4UG5M	*	*	*	VF CA4UG1M 1 metre	
			PVC	VF CA5PG3M	VF CA5PG5M	VF CA5PG10M	*	*	VF CA5PG2M 2 metres	
			PUR	VF CA5UG3M	*	VF CA5UG10M	*	*	VF CA5UG2M 2 metres	
			PVC	VF CA8PG3M	VF CA8PG5M	VF CA8PG10M	*	*	VF CA8PG2M 2 metres VF CA8PG15M 15 metres	
			PUR	*	*	VF CA8UG10M	*	*	VF CA8UG2M 2 metres	
			PVC	*	VF CA12PG5M	VF CA12PG10M	*	*	*	
			PUR	*	VF CA12UG5M	VF CA12UG10M	*	*	VF CA12UG15M 15 metres	
M12x1 extension cable			PVC	VF CA5PD3M-MD € 15.03	VF CA5PD5M-MD € 18.16	VF CA5PD10M-MD € 26.87	*	*	VF CA5PD1M-MD 1 metre VF CA5PD2M-MD 2 metres	73
			PVC	VF CA8PD3M-MD € 19.46	VF CA8PD5M-MD € 22.09	VF CA8PD10M-MD € 29.63	VF CA8PD20M-MD	*	*	
			PVC	*	VF CA12PD5M-MD	VF CA12PD10M-MD	VF CA12PD20M-MD	*	*	
			PVC	*	VF CA12PD5M-MD	VF CA12PD10M-MD	VF CA12PD20M-MD	*	*	
M23x1 female			PVC	*	VF CA12PD5S	VF CA12PD10S € 74.56	VF CA12PD20S € 114.36	VF CA12PD30S € 154.54	VF CA12PD1S 1 metre VF CA12PD40S 40 metres	74
				*	VF CA19PD5S € 73.18	VF CA19PD10S € 97.97	VF CA19PD20S € 142.51	VF CA19PD30S € 220.16	VF CA19PD1S 1 metre VF CA19PD2S 2 metres VF CA19PD40S 40 metres	
M23x1 extension cable			PVC	*	VF CA19PD5S-SD	VF CA19PD10S-SD	VF CA19PD20S-SD	*	*	74

Table subject to changes. Check online at www.pizzato.com or contact our technical department.

Stock codes

	Minimum order quantity
Normally held in stock	1
Not in stock	50 100

Codes on request

* Contact our offices

M8 - M12 connectors

**M12 male connectors for panel mounting**

Protection degrees IP67 and IP69K.
PG 13.5 or M20x1.5 thread on the device side.
Gold-plated contacts.

	Article	Description
Threads M20x1.5	VF CNM4MM € 6.99	M12 connector, 4-pole, metal
	VF CNM5MM € 8.16	M12 connector, 5-pole, metal
	VF CNM8MM € 11.39	M12 connector, 8-pole, metal
	VF CNM12MM-L16 € 31.45	M12 connector, 12-pole, metal
	VF CNP4MM € 3.89	M12 connector, 4-pole, plastic
	VF CNP5MM € 4.49	M12 connector, 5-pole, plastic
	VF CNP8MM € 8.14	M12 connector, 8-pole, plastic
Threads PG 13.5	VF CNM4PM € 6.99	M12 connector, 4-pole, metal
	VF CNM5PM € 8.16	M12 connector, 5-pole, metal
	VF CNM8PM € 11.39	M12 connector, 8-pole, metal
	VF CNP4PM € 3.89	M12 connector, 4-pole, plastic
	VF CNP5PM € 4.49	M12 connector, 5-pole, plastic

**M8 and M12 female connectors with cable**

Protection degrees IP67 and IP69K.
Anti-vibration self-locking ring nut.
Gold-plated contacts.

	Article	Description
PVC cable	VF CA4PD3K € 8.48	M8 connector, 4-pole, straight, length 3 m
	VF CA4PD5K € 10.69	M8 connector, 4-pole, straight, length 5 m
	VF CA4PD3M € 8.76	M12 connector, 4-pole, straight, length 3 m
	VF CA4PD5M € 11.43	M12 connector, 4-pole, straight, length 5 m
	VF CA4PD10M € 16.55	M12 connector, 4-pole, straight, length 10 m
	VF CA5PD3M € 8.97	M12 connector, 5-pole, straight, length 3 m
	VF CA5PD5M € 11.78	M12 connector, 5-pole, straight, length 5 m
	VF CA5PD10M € 17.84	M12 connector, 5-pole, straight, length 10 m
	VF CA8PD3M € 11.87	M12 connector, 8-pole, straight, length 3 m
	VF CA8PD5M € 14.60	M12 connector, 8-pole, straight, length 5 m
	VF CA8PD10M € 22.53	M12 connector, 8-pole, straight, length 10 m
	VF CA8PD20M € 34.91	M12 connector, 8-pole, straight, length 20 m
	VF CA12PD3M € 22.09	M12 connector, 12-pole, straight, length 3 m
	VF CA12PD5M € 27.37	M12 connector, 12-pole, straight, length 5 m
	VF CA12PD10M € 43.98	M12 connector, 12-pole, straight, length 10 m
	VF CA12PD20M € 62.73	M12 connector, 12-pole, straight, length 20 m
	VF CA12PD30M € 73.42	M12 connector, 12-pole, straight, length 30 m
PUR cable	VF CA8UD5M-X € 22.22	M12 connector, 8-pole, straight, length 5 m, with stainless steel hexagonal ring nut
	VF CA8UD10M-X	M12 connector, 8-pole, straight, length 10 m, with stainless steel hexagonal ring nut
	VF CA12UD10M-X € 47.09	M12 connector, 12-pole, straight, length 10 m, with stainless steel hexagonal ring nut

**Field wireable M12 female connectors**

Technopolymer connector body.
Gold-plated contacts.
Screw terminals for cable screw fittings.
Protection degree IP67.

Article	Description
VF CBMP4DM04 € 10.28	Field wireable M12 female connector, 4-pole, straight, for Ø 4 ... 6.5 mm multipolar cables
VF CBMP5DM04 € 11.14	Field wireable M12 female connector, 5-pole, straight, for Ø 4 ... 6.5 mm multipolar cables
VF CBMP8DM04 € 17.41	Field wireable M12 female connector, 8-pole, straight, for Ø 4 ... 7 mm multipolar cables

**Field wireable M12 male connectors**

Technopolymer connector body.
Gold-plated contacts.
Screw terminals for cable screw fittings.
Protection degree IP67.

Article	Description
VF CCMP5DM04 € 11.02	Field wireable M12 male connector, 5-pole, straight, for Ø 4 ... Ø 6.5 mm multipolar cables
VF CCMP8DM04 € 17.24	Field wireable M12 male connector, 8-pole, straight, for Ø 4 ... Ø 7 mm multipolar cables

M12 connectors for series connection

**M12 extension cables with male and female connector**

Polyurethane connector body.
Protection degree IP67.
Gold-plated contacts.
Anti-vibration self-locking ring nut.

Article	Description
VF CA5PD3M-MD € 15.03	M12 connector, 5-pole, straight, length 3 m
VF CA5PD5M-MD € 18.16	M12 connector, 5-pole, straight, length 5 m
VF CA5PD10M-MD € 26.87	M12 connector, 5-pole, straight, length 10 m
VF CA8PD3M-MD € 19.46	M12 connector, 8-pole, straight, length 3 m
VF CA8PD5M-MD € 22.09	M12 connector, 8-pole, straight, length 5 m
VF CA8PD10M-MD € 29.63	M12 connector, 8-pole, straight, length 10 m

**Y-cable with M12 connectors, for series connections, 150 mm cable length**

Polyurethane connector body.
Protection degree IP67.
Gold-plated contacts.
Anti-vibration self-locking ring nut.

Article	Description
VF CY201P0 € 17.77	Y-cable with M12 connectors, for series connections, 150 mm cable length

**M12 terminating plugs for series connections**

Polyurethane connector body.
Protection degree IP67.
Gold-plated contacts.
Anti-vibration self-locking ring nut.

Article	Description
VF CY100P0 € 6.12	M12 terminating plugs for series connections, 4-pole

**M12 connector, Y-shaped, for series connections without cable**

Polyurethane connector body.
Protection degree IP67.
Gold-plated contacts.
Anti-vibration self-locking ring nut.

Article	Description
VF CY203P0 € 14.61	M12 connector, Y-shaped, for series connections without cable

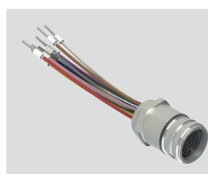
M23 connectors



M23 male connectors for panel mounting

Protection degrees IP67 and IP69K.
M20x1.5 thread on the device side.
Gold-plated contacts.

Article	Description
VF CNM12MT-L10 € 35.91	M23 connector, 12-pole, length 10 cm
VF CNM12MT-L16 € 37.34	M23 connector, 12-pole, length 16 cm
VF CNM19MT-L10 € 56.72	M23 connector, 19-pole, length 10 cm
VF CNM19MT-L16 € 57.37	M23 connector, 19-pole, length 16 cm



M23 female connectors for panel mounting

Protection degrees IP67 and IP69K.
M20x1.5 thread on the device side.
Gold-plated contacts.

Article	Description
VF CPM12MT-L10	M23 connector, 12-pole, length 10 cm
VF CPM12MT-L20	M23 connector, 12-pole, length 20 cm
VF CPM19MT-L10	M23 connector, 19-pole, length 10 cm
VF CPM19MT-L20	M23 connector, 19-pole, length 20 cm

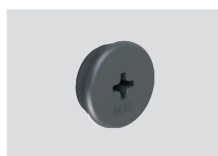


M23 female connectors with cable

Protection degrees IP67 and IP69K.
Gold-plated contacts.

Article	Description
VF CA12PD10S € 74.56	M23 connector, 12-pole, length 10 m
VF CA12PD20S € 114.36	M23 connector, 12-pole, length 20 m
VF CA12PD30S € 154.54	M23 connector, 12-pole, length 30 m
VF CA19PD5S € 73.18	M23 connector, 19-pole, length 5 m
VF CA19PD10S € 97.97	M23 connector, 19-pole, length 10 m
VF CA19PD20S € 142.51	M23 connector, 19-pole, length 20 m
VF CA19PD30S € 220.16	M23 connector, 19-pole, length 30 m

Cable glands and adapters



Protection caps

Protection caps for threaded conduit entries.
Protection degree IP67.

Packs of **100 pcs.**

Article	Description
VF PTG13,5	Protection cap PG13.5
VF PTM20 € 0.20	Protection cap M20x1.5



Chock plugs

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

Packs of **100 pcs.**

Article	Description
VF PFM20C8N € 0.14	Chock plug for cables Ø 8 ... 12 mm, threaded, M20x1.5
VF PFM20C4N € 0.16	Chock plug for cables Ø 4 ... 8 mm, threaded, M20x1.5



Strain relief cable glands

This particular design ensures high resistance to traction of the cable glands. All cable glands are also suitable for a wide range of cable diameters. Protection degree IP67.

Packs of **10 pcs.**

	Article	Description	Rubber shapes
Metric threads	VF PAM25C7N € 0.85	M25x1.5, for 1 cable from Ø 10 ... 17 mm	○
	VF PAM20C6N € 0.40	M20x1.5, for 1 cable from Ø 6 ... 12 mm	○
	VF PAM20C5N € 0.42	M20x1.5, for 1 cable from Ø 5 ... 10 mm	○
	VF PAM20C3N € 0.45	M20x1.5, for 1 cable from Ø 3 ... 7 mm	○
	VF PAM16C5N € 0.39	M16x1.5, for 1 cable from Ø 5 ... 10 mm	○
	VF PAM16C4N € 0.39	M16x1.5, for 1 cable from Ø 4 ... 8 mm	○
	VF PAM16C3N € 0.43	M16x1.5, for 1 cable from Ø 3 ... 7 mm	○
	VF PAM20CBN € 0.47	M20x1.5 for 2 cables Ø 3 ... 5 mm	⊗
	VF PAM20CDN € 0.48	M20x1.5 for 3 cables Ø 1 ... 4 mm	⊗
	VF PAM20CEN € 0.47	M20x1.5 for 3 cables Ø 3 ... 5 mm	⊗
	VF PAM20CFN € 0.47	M20x1.5 for 4 cables Ø 1 ... 4 mm	⊗
	VF PAM20CFN € 0.47	M20x1.5 for 4 cables Ø 1 ... 4 mm	⊗
Threads PG	VF PAP13C6N € 0.40	PG 13.5, for one cable from Ø 6 ... 12 mm	○
	VF PAP13C5N € 0.43	PG 13.5, for one cable from Ø 5 ... 10 mm	○
	VF PAP13C3N € 0.45	PG 13.5, for one cable from Ø 3 ... 7 mm	○
	VF PAP11C5N € 0.39	PG 11, for one cable from Ø 5 ... 10 mm	○
	VF PAP11C4N € 0.39	PG 11, for one cable from Ø 4 ... 8 mm	○
	VF PAP11C3N € 0.43	PG 11, for one cable from Ø 3 ... 7 mm	○



Thread adapters

Thread adapters make it possible to fulfil requests for switches with a different thread to those generally found in stock. This means it is possible to offer customers a single product type with various threaded connections, while only having to stock the product itself and many kinds of adapters.

Packs of **100 pcs.**

Article	Description
VF ADPG13-PG11 € 0.23	Adapter from PG 13.5 to PG 11
VF ADPG13-M20 € 0.23	Adapter from PG 13.5 to M20x1.5
VF ADPG13-1/2NPT € 0.23	Adapter from PG 13.5 to 1/2 NPT
VF ADPG11-1/2NPT € 0.23	Adapter from PG 11 to 1/2 NPT
VF ADPG11-PG13 € 0.23	Adapter from PG 11 to PG 13.5
VF ADM20-1/2NPT € 0.23	Adapter from M20x1.5 to 1/2 NPT

Door holding magnets



Holding magnets for use on machinery doors. The magnets are contained inside a sealed plastic cover and will not rust even in damp environments.

Article	Description
SM H9ZF € 14.20	Door holding magnet (holding force 40 N)
SM H9ZQ € 14.20	Door holding magnet (holding force 40 N, opposite polarity to SM H9ZF)

Coded screw covers for switches and actuators



Coded screw covers are fitted via snap-on application to the openings of the fixing screws, making it impossible to access the screws and therefore disassemble the switch or actuator. The shells can only be removed by breaking them. Thus, any attempt to tamper with them will be immediately evident. By recording the data of the protective covers during final installation of the machine, e.g., by photographing the installed products, any replacements can be detected subsequently.

These new, coded protective covers can, therefore, also be used as a replacement for standard covers (should they be lost) without affecting the protection against tampering.

The covers are available for series SR, SM A, ST G, ST D, ST H, SM G, SM H, SM D, SM L, SM E, AN, NG (actuator), NS (housing), NS (actuator), NX.

Article	Description
VF PC10A9 € 0.52	Coded protective screw covers for series SR - SM A - ST G - NX
VF PC11A9 € 0.52	Coded protective screw covers for series ST D - ST H - SM G - SM H - SM D - SM L - SM E
VF PC12A9 € 0.52	Coded protective screw covers for the NG series (actuator)
VF PC13A9 € 0.52	Coded protective screw covers for the NS series (housing) - AN
VF PC14A9 € 0.52	Coded protective screw covers for the NS series (actuator)

Tampering protection for M12 connectors



Coded covers for M12 connectors

These tampering protections are composed of two identical snap-on shells. They are applied to the device connectors, thereby making them inaccessible. The shells can only be removed by breaking them. Thus, any attempt to tamper with them will be immediately evident.

The coding has the same properties as the screw covers described above, thereby guaranteeing tens of thousands of different combinations.

Packs of **10 pcs.**

Article	Description
VF PC21A9 € 2.42	Coded protective covers for M12 connectors integrated in the device
VF PC22A9 € 2.42	Coded protective covers for M12 extension cables
VF PC21B6 € 2.83	Coded protective covers for M12 connectors integrated in the device
VF PC22B6 € 2.83	Coded protective covers for M12 extension cables

LED signalling lights



Signalling lights

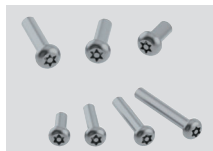
These LED signalling lights are used for signalling that an electric contact has changed its state inside the switch. They can be installed on switches by screwing them on one of the conduit entries not used for electric cables.

- Protection degrees IP67 and IP69K
- Ambient temperature: -25°C ... +70°C
- Push-in type spring-operated connection system
- Body with M20x1.5 thread

Packs of **5 pcs.**

Article	Description
VF SL1A2PA1 € 7.40	White, 24 Vac/dc
VF SL1A3PA1 € 7.40	Red, 24 Vac/dc
VF SL1A4PA1 € 7.40	Green, 24 Vac/dc
VF SL1A5PA1 € 7.40	Yellow, 24 Vac/dc

Fixing screws

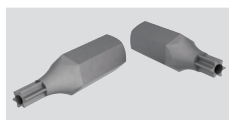


Torx safety screws

Pan head screws with Torx fitting and pin, stainless steel.
Use a thread locker where required for applications acc. to EN ISO 14119.

Packs of **10 pcs.**

Article	Description
VF VAM4X10BX-X € 0.52	M4x10 screw, with Torx T20 fitting, AISI 304
VF VAM4X15BX-X € 0.52	M4x15 screw, with Torx T20 fitting, AISI 304
VF VAM4X20BX-X € 0.59	M4x20 screw, with Torx T20 fitting, AISI 304
VF VAM4X25BX-X € 0.59	M4x25 screw, with Torx T20 fitting, AISI 304
VF VAM4X30BX-X € 0.59	M4x30 screw, with Torx T20 fitting, AISI 304
VF VAM5X10BX-X € 0.56	M5x10 screw, with Torx T25 fitting, AISI 304
VF VAM5X15BX-X € 0.56	M5x15 screw, with Torx T25 fitting, AISI 304
VF VAM5X20BX-X € 0.61	M5x20 screw, with Torx T25 fitting, AISI 304
VF VAM5X25BX-X € 0.61	M5x25 screw, with Torx T25 fitting, AISI 304
VF VAM5X35BX-X € 1.07	M5x35 screw, with Torx T25 fitting, AISI 304
VF VAM5X45BX-X € 1.17	M5x45 screw, with Torx T25 fitting, AISI 304



Bits for Torx safety screws

Bits for safety screws, with 1/4" connection.

Article	Description
VF VAIT1T20 € 4.09	Bits for M4 screws with Torx T20 fitting with safety pin
VF VAIT1T25 € 4.09	Bits for M5 screws with Torx T25 fitting with safety pin
VF VAIT1T30 € 4.09	Bits for M6 screws with Torx T30 fitting with safety pin



OneWay safety screws

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.

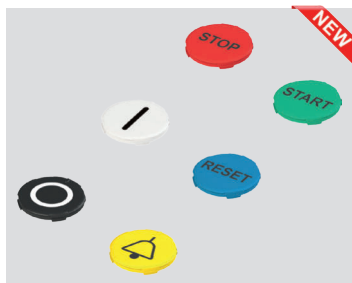
Packs of **10 pcs.**

Article	Description
VF VAM4X10BW-X € 0.52	M4x10 screw, with OneWay fitting, AISI 304
VF VAM4X15BW-X € 0.52	M4x15 screw, with OneWay fitting, AISI 304
VF VAM4X20BW-X € 0.59	M4x20 screw, with OneWay fitting, AISI 304
VF VAM4X25BW-X € 0.59	M4x25 screw, with OneWay fitting, AISI 304
VF VAM5X10BW-X € 0.56	M5x10 screw, with OneWay fitting, AISI 304
VF VAM5X15BW-X € 0.56	M5x15 screw, with OneWay fitting, AISI 304
VF VAM5X20BW-X € 0.61	M5x20 screw, with OneWay fitting, AISI 304
VF VAM5X25BW-X € 0.61	M5x25 screw, with OneWay fitting, AISI 304

Lenses for VN NG-AC•• series buttons



Lenses without engraving			
Article	Description	Colours	Pieces/package
VN NG-AC01 € 0.77	Lens for flush button, black, without engraving	●	10
VN NG-AC02 € 0.77	Lens for flush button, white, without engraving	○	10
VN NG-AC03 € 0.77	Lens for flush button, red, without engraving	●	10
VN NG-AC04 € 0.77	Lens for flush button, green, without engraving	●	10
VN NG-AC05 € 0.77	Lens for flush button, yellow, without engraving	●	10
VN NG-AC06 € 0.77	Lens for flush button, blue, without engraving	●	10
VN NG-ACA0 € 4.64	6 lenses for flush button without engraving, colours: black, white, red, green, yellow and blue	● ○ ● ● ● ●	1



Lenses with engraving			
Article	Description	Colours	Pieces/package
VN NG-AC01-●●●●	Lens for flush button, black, with engraving	●	1
VN NG-AC02-●●●●	Lens for flush button, white, with engraving	○	1
VN NG-AC03-●●●●	Lens for flush button, red, with engraving	●	1
VN NG-AC04-●●●●	Lens for flush button, green, with engraving	●	1
VN NG-AC05-●●●●	Lens for flush button, yellow, with engraving	●	1
VN NG-AC06-●●●●	Lens for flush button, blue, with engraving	●	1

The black lens cannot be used with illuminated buttons.

For ordering engraved lenses for buttons: replace the dots ●●●● in the article codes with the engraving code reported in the chapter Accessories on page 77.

Example: white lens for flush button with "O" engraving. VN NG-AC02-●●●● → VN NG-AC02-L1

List of available engravings

Code	Symbol	Code	Symbol	Code	Symbol	Code	Symbol	Code	Symbol	Code	Symbol	Code	Symbol
L1		L17		L142		L87		L527		L10		L294	
L287		L44		L54		L76		L382		L18		L313	
L413		L45		L56		L187		L566		L143		L314	
L2		L46		L57		L77		L383		L24		L227	
L3		L60		L55		L78		L384		L310		L228	
L4		L191		L146		L190		L385		L25		L316	
L35		L193		L293		L416		L386		L30		L394	
L36		L308		L304		L417		L395		L31		L399	
L37		L61		L305		L189		L411		L58		L436	
L11		L153		L470		L230		L414		L75		L437	
L12		L194		L317		L249		L415		L425		L438	
L412		L309		L319		L376		L418		L454		L439	
L188		L408		L330		L102		L419		L83		L440	
L14		L145		L455		L103		L420		L84		L441	
L32		L336		L456		L139		L80		L90		L295	
L33		L96		L369		L140		L374		L91		L668	
L34		L27		L426		L141		L476		L311		L689	
L240		L147		L59		L157		L472		L312		L234	
L16		L148		L64		L381		L473		L442		L235	
L41		L162		L62		L445		L474		L443		L236	
L42		L172		L63		L278		L475		L170		L237	
L43		L220		L86		L323		L7		L174		L238	
L213		L277		L88		L362		L8		L175		L239	
L254		L226		L89		L380		L9		L176		L241	

Other engravings on request

Code	Symbol	Code	Symbol	Code	Symbol	Code	Symbol	Code	Symbol	Code	Symbol
L242		L460		L516	C	L407	P	L73	9	L617	START ENABLE
L243		L485		L517	D	L575	P-1	L74	0	L250	POWER
L244		L486		L530	E	L576	P0	L450	-1	L132	TACITAZIONE SIRENA
L245		L494		L518	F	L577	P1	L451	-2	L167	RETE
L246		L504		L519	G	L578	P2	L547	X+	L168	TERMICO
L247		L505		L698	H	L579	P3	L548	X-	L169	MARCIA
L248		L506		L699	I	L580	P4	L206	×	L173	RAPID SCHNELL
L251		L512		L700	J	L15	R	L208	×	L224	ACCESS REQUEST
L253		L528		L453	K	L40	Y	L716	Y+	L225	ACCESS RESET
L260		L529		L701	L	L38	Y	L717	Y-	L231	ZONE
L279		L539		L702	M	L39	Y	L205	Y+	L233	CAUTION
L280		L543		L703	N	L520	Z1	L207	-A	L265	FERMETURE
L393		L562		L704	O	L521	Z2	L718	Z+	L268	OIL TANK
L389		L596		L705	P	L597	EI	L719	Z-	L299	BÜNDIG
L390		L609		L706	Q	L598	ES	L262		L361	CABINE A NIVEAU
L391		L612		L707	R	L599	IT	L573	RUN	L370	UNLOCK DOOR
L392		L613		L708	S	L65	1	L574	STOP	L371	REQUEST / RESET ACCESS TO AREA
L463		L614		L709	T	L66	2	L215	INIT	L378	SICHER
L464		L615		L710	U	L67	3	L276	START STOP	L379	UNSICHER
L465		L651		L711	V	L68	4	L603	CYCLE START	L396	MAN
L466		L667		L712	W	L69	5	L333	NS. TESTA CYCLE STOP	L433	SERVOS ON
L467		L673		L713	X	L70	6	L583	STOP AUTO	L477	ALARM
L468		L514	A	L714	Y	L71	7	L581	START AUTO	L489	OK
L375		L515	B	L715	Z	L72	8	L410	PAUSE (START)	L513	ACCÈS
										L536	SBLOCCO TESTA
										L537	INS. AUX
										L538	INS. TESTA
										L549	ACCESS
										L561	BIMANUAL
										L564	VALID
										L582	STAND-BY PUMPS
										L591	LOCK UNLOCK
										L600	REV
										L602	HOLD
										L605	QUIT
										L607	REARMAR
										L618	REQUEST ENTRY
										L619	FAULT RESET
										L620	RECIPE 1
										L621	RECIPE 2
										L622	RECIPE 3
										L623	RECIPE 4
										L624	RECIPE 5
										L625	RECIPE 6
										L627	SEND
										L628	FADE
										L629	FLASH 1Hz
										L630	FLASH 2Hz

Other engravings on request

Code	Symbol	Code	Symbol	Code	Symbol	Code	Symbol	Code	Symbol	Code	Symbol	Code	Symbol
L631	LOW HIGH	L720	RESET LIGHT CURTAINS	L48	STOP	L130	100%	L292	MONO / TRI	L121	SCATTO TERMICO	L104	24V 电源指示 24V Power
L632	ON	L721	ABORT	L49	STOP	L315	24V=	L327	ENABLE DISABLE	L122	CIRCUIT BREAKER	L105	220V 电源指示 220V Power
L650	READY	L461	LIGA	L113	STOP	L82	EROUND	L222	ACCESS DENIED	L123	MAN. - AUT.	L106	选择开关 Selector
L677	HOME	L421	Viceménè	L29	START	L199	SPEED	L223	ACCESS ALLOWED	L124	START CICLO	L107	启动按钮 START
L678	PINZA	L197	R	L53	START	L332	ALLOW IN	L216	C / C	L125	RADDRIZZATORE 0 - 1	L108	停止按钮 STOP
L679	DELETE	L201	HEAD RETRACT	L51	START	L334	SYSTEM START	L117	POMPA FILTRO 0 - 1	L126	STOP CICLO	L109	电源指示 Power
L680	SAVE	L209	HEAD UP	L129	3/4	L335	SYSTEM STOP	L118	FILTER PUMP 0 - 1	L127	BY-PASS EMERGENZE 0 - 1	L110	合闸指示 Ready
L686	GRIPPER	L28	STOP	L114	RESET	L281	DEFAULT	L119	RISCALDAMENTO 0 - 1	L131	AZIONAMENTO 0 - 1	L111	故障指示 Stoppage
L687	TOE PRESS	L50	STOP	L306	RESET	L289	BOOST	L120	HEATING 0 - 1	L135	AVANTI - INDIETRO		

Other engravings on request

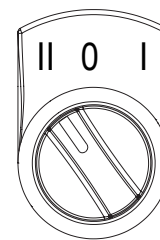
List of available engravings – TEXTS

Code	Text	Code	Text	Code	Text
IT0	ARRESTO	GB12	MAN. 0 AUTO	FR10	ARRÊT MARCHE
IT1	AVVIO	GB14	RESET	FR11	MAN. AUTO
IT2	CHIUSO	GB15	FORWARD	FR12	MAN. 0 AUTO
IT3	SU	GB16	REVERSE	FR14	REARM.
IT4	GIÙ	GB17	RAISE	FR15	AVANT
IT5	SPENTO	GB18	LOWER	FR16	ARRIÈRE
IT6	ACCESO	GB19	LEFT	FR17	MONTER
IT7	IN SERVIZIO	GB20	RIGHT	FR18	DESCENDRE
IT8	ERRORE	GB21	BRAKE	FR19	GAUCHE
IT9	TEST	GB22	HIGH	FR20	DROITE
IT13	MARCIA	GB23	LOW	FR21	FERMER/OUVRIR
IT14	RIAVVIA	GB24	FAST	FR32	OUVRIR
IT15	AVANTI	GB25	SLOW	FR54	BROCHAGE
IT16	INDIETRO	GB26	FASTER	FR55	ALARME
IT17	AUMENTA	GB27	SLOWER	FR60	OUVRIR/FERMER
IT18	DIMINUISCI	GB32	OPEN	FR63	APPEL
IT19	SINISTRA	GB49	MANUAL	FR64	OCCUPÉ
IT20	DESTRA	GB50	REMOTE	FR68	SOUSTENSION
IT21	FRENO	GB51	LINE	FR77	DÉFAUT
IT22	ALTO	GB58	DIVE	FR99	ARRÊT D'URGENCE
IT23	BASSO	GB59	SURFACE	DE0	HALT
IT24	VELOCE	GB63	CALL	DE3	AUF
IT25	LENTO	GB64	OCCUPIED	DE4	AB
IT26	PIÙ VELOCE	GB65	BYPASS 0 1	DE5	AUS
IT27	PIÙ LENTO	GB66	BYPASS UP	DE7	BETRIEB
IT32	APRIRE	GB67	ENABLE SWITCH	DE8	STÖRUNG
IT47	APRE	GB69	TEACH	DE14	ENTSPERREN
IT48	CHIUDE	GB70	STOCK	DE24	SCHNELL
IT51	LINEA	GB71	STAR	DE31	TIPPEN
IT52	SALITA	GB72	OVERLOAD	DE32	ÖFFNEN
IT53	DISCESA	GB73	REQUEST	DE64	BESETZT
IT63	CHIAMATA	GB76	AUTO	DE99	NOT-AUS
IT64	OCCUPATO	GB78	RESERVE	ES3	SUBIR
IT68	RIPRISTINO	GB79	DOOR	ES4	BAJAR
IT74	EMERGENZA	GB80	UNLOCK	ES8	FALLO
IT99	ARRESTO D'EMERGENZA	GB81	DOOR UNLOCK	ES15	AVANCE
GB0	STOP	GB82	LOCK	ES32	ABRIR
GB1	START	GB99	EMERGENCY STOP	ES56	MARCHA
GB2	CLOSE	FR0	ARRÊT	ES57	PARO
GB3	UP	FR1	MARCHE	DK3	OP
GB4	DOWN	FR2	FERMÉ	DK4	NED
GB5	OFF	FR3	MONTÉE		
GB6	ON	FR4	DESCENTE		
GB7	RUN	FR5	ARRÊT		
GB8	FAULT	FR6	MARCHE		
GB9	TEST	FR7	EN SERVICE		
GB10	OFF ON	FR8	PANNE		
GB11	MAN. AUTO	FR9	ESSAI		

Other engravings on request

List of available engravings only for VE/TF series labels

Code	Symbol	Code	Symbol	Code	Symbol	Code	Symbol	Code	Symbol
L19	0 I	L217	CLOSE OPEN	L255	OUVERTURE GAUCHE	L352	STOP2	L642	DEF.FIL.
L20	0 I	L97	COALESCING FABRIC	L256	OUVERTURE DROITE	L353	STOP3	L643	KL-0-KLI
L21	II 0 I	L98	EDGE TESTING	L257	FERMETURE DROITE	L354	STOP4	L644	SCIE
L22	I 0	L99	HORIZONTAL TESTING	L258	FERMETURE GAUCHE	L355	START1	L647	
L219	0 —	L100	HORIZONTAL TESTING	L264	OUVERTURE	L356	START2	L648	
L185	1 2 3	L101	INDICATION LIGHT OF HEAT TREATMENT	L265	FERMETURE	L357	START3	L654	BIND.1
L259	1 2 3 4	L116	Aterställning Låg topp/grop	L282	NIVEAU HAUT	L358	START4	L655	BIND.2
L452	STOP START	L133	CARTON/PLASTIQUE	L283	NIVEAU BAS	L479	JOG	L656	CUT. UNIT
L156	↑ ↓	L134	AUTO/BROCHAGE	L284	PRÉSENCE FLAMME	L480	OPEN CLOSE	L657	FAULT LINK
L262	← 0 →	L138	FIN DE BALLE	L285	DÉFAUT FLAMME	L487	APRI CHIUDI	L658	FAULT SAFETY
L155	AUTO 0 MAN.	L149	MONTÉE DROITE	L286	ACQUIT DÉFAUT	L490	I II	L659	POWER ON
L164	AUTO. MAN.	L150	MONTÉE GAUCHE	L288	ÉVACUATION DES FUMÉES	L491		L660	RETARD
L377	AUTOMATIC 0 1	L151	DESCENTE DROITE	L339	R	L513	ACCÈS	L661	TIME DELAY
L342	MAN OFF AUTO	L152	DESCENTE GAUCHE	L340	S	L530	E	L666	
L266	AUTO-0-MAIN	L177	ENABLE 1	L341	T	L540	PARKERING	L682	ON OFF ON
L359	START AUTO	L178	ENABLE 2	L343	RUN 1	L541	OP NED	L684	
L360	STOP AUTO	L179	ENABLE 3	L344	RUN 2	L542	LIFT HERTIL PARKE RING	L685	
L163	SLOW FAST	L180	ENABLE 4	L345	RUN 3	L555	OIL IN	L690	SLOW STD FAST
L404		L181	ENABLE 5	L346	RUN 4	L556	OIL OUT	L691	SUBIR - BAJAR
L171	HIGH LOW	L182	ENABLE 6	L347	EMER1	L567	HERTIL	L692	AVANCE * RETRO CESO
L232	R 0 F	L183	ENABLE 7	L348	EMER2	L638	BOT.1	L7120	
L307	FWD 0 REV	L184	ENABLE 8	L349	EMER3	L639	BOT.2		
L469	FWD REV	L186	NOUEUR	L350	EMER4	L640	CONV.		
L144	BARRIER BY-PASS & RESET 0 1	L221	SPARE	L351	STOP1	L641	DEF.SECU		



Example of 3-position selector with VE TF●●H●●●● label and L21 engraving.

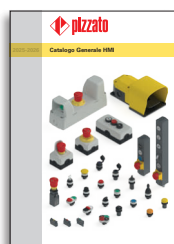
Other engravings on request

Notes

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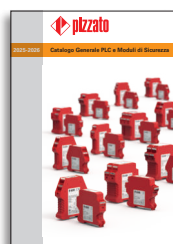
General Catalogue
Detection



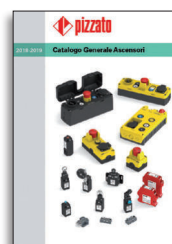
General Catalogue
HMI



General Catalogue
Safety
Devices



General Catalogue
- PLCs & Safety
Modules



General Catalogue
Lift



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