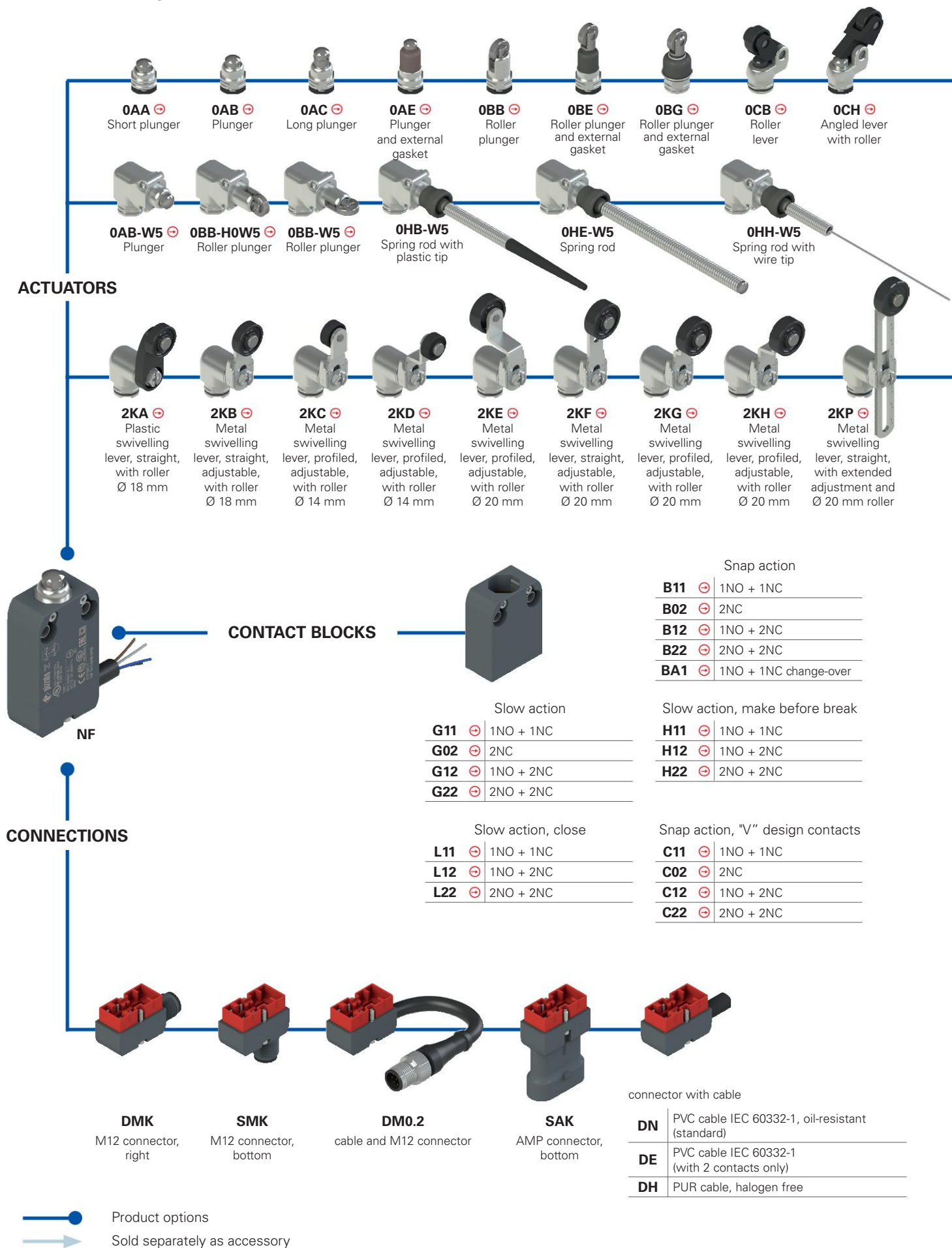
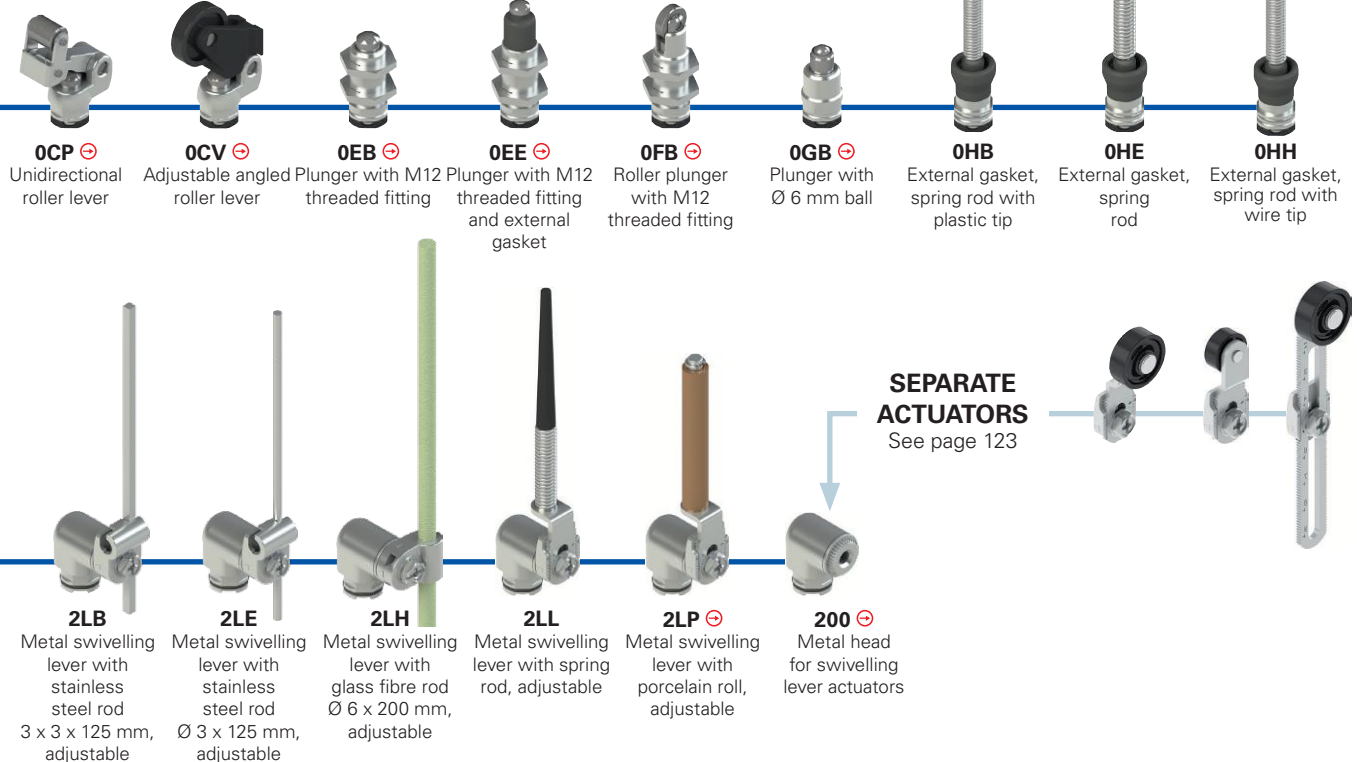


Selection diagram for item combinations of the NF series

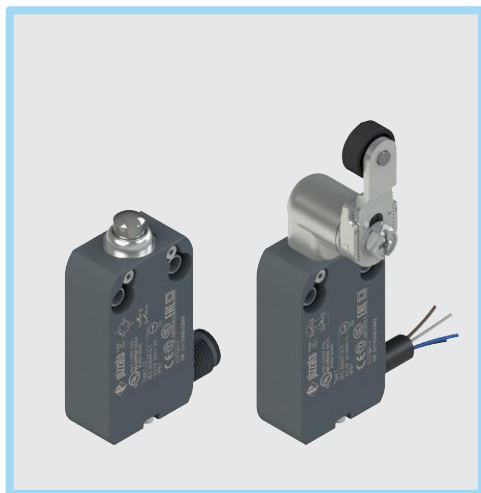




Code structure

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

Housing		article		options	
NF technopolymer, hole spacing 20 mm		NF B110AB-DN2		GR7T6W5	
				Redirection without redirection W5 90° redirection	
				Ambient temperature -25°C ... +80°C (standard) T6 -40°C ... +80°C	
				Rollers standard roller R30 Steel, with self-lubrication, Ø 10.6 mm R44 316L stainless steel, Ø 12 mm R29 Steel, with self-lubrication, Ø 13 mm R18 technopolymer, Ø 14 mm R23 Steel, with self-lubrication, Ø 14 mm R43 316L stainless steel, Ø 14 mm R36 steel, with self-lubrication, Ø 16 mm R7 technopolymer, Ø 18 mm R22 technopolymer, Ø 20 mm R24 steel, with self-lubrication, Ø 20 mm R41 316L stainless steel, Ø 20 mm R19 technopolymer, Ø 22 mm R25 technopolymer, Ø 35 mm	
				Contact type silver contacts (standard) G silver contacts with 1 µm gold coating ⁽¹⁾ ⁽¹⁾ Not available for contact block C••	
				Connection type 0.2 cable, length: 0.2 m with M12 connector (available for DM0.2 versions only) 2 cable, length: 2 m (standard) 5 cable, length 5 m (other cable lengths available on request) K integrated connector	
				Cable or connector type N PVC cable IEC 60332-1, oil-resistant (standard) E PVC cable IEC 60332-1 (with 2 contacts only) H PUR cable, halogen free M M12 connector A AMP Superseal 1.5 connector	
Contact block B11 1NO+1NC, snap action (standard) B02 2NC, snap action (standard) B12 1NO+2NC, snap action (standard) B22 2NO+2NC, snap action (standard) BA1 1NO+1NC, snap action, change-over (available with M connector only) C11 1NO+1NC, snap action, "V" design contacts C02 2NC, snap action, "V" design contacts C12 1NO+2NC, snap action, "V" design contacts C22 2NO+2NC, snap action, "V" design contacts G11 1NO+1NC, slow action (standard) G02 2NC, slow action (standard) G12 1NO+2NC, slow action (standard) G22 2NO+2NC, slow action H11 1NO+1NC, slow action, make before break H12 1NO+2NC, slow action, make before break H22 2NO+2NC, slow action, make before break L11 1NO+1NC, slow action, close L12 1NO+2NC, slow action, close L22 2NO+2NC, slow action, close Other contact blocks on request.		Actuator heads 0 without head 2 head for swivelling lever actuators		Actuators AA short plunger AB plunger	
				Output direction D cable or connector, right S connector, bottom	



Main features

- Technopolymer housing, right or bottom cable output
- Protection degrees IP67 and IP69K
- 2 types of integrated cable available
- Versions with M12 connector suitable for safety applications $\oplus$
- Versions with AMP connector
- 19 contact blocks available
- 37 actuators available

Quality marks:



IMQ approval: CA02.04562
 UL approval: E131787
 CCC approval: 2024010305656745
 EAC approval: RU Д-IT.PA07.B.37848/24

Technical data

Housing

Housing made of glass fibre reinforced technopolymer, self-extinguishing, shock-proof and with double insulation $\square$.

Versions with integrated cable, standard length 2 m. Other lengths 0.5 ... 10 m or special cables available on request.

Versions with integrated M12 connector.

Versions with 0.2 m cable length and M12 connector, other lengths from 0.1 ... 3 m on request

Protection degree:

IP67 acc. to EN 60529

IP69K acc. to ISO 20653

(Protect the cables from direct high-pressure and high-temperature jets)

Corrosion resistance in saline mist:

≥ 300 hours in NSS acc. to ISO 9227

General data

Ambient temperature for switches without cable: -25°C ... + 80°C (standard)

-40°C ... + 80°C (T6 option)

Ambient temperature for switches with cable:

See table on page 116

Max. actuation frequency:

3600 operating cycles/hour

Mechanical endurance:

B••, G••, H••, L•• contact blocks:

20 million operating cycles

C•• contact block:

5 million operating cycles

Mounting position:

any

Safety parameter B_{10D} :

B••, G••, H••, L•• contact blocks:

40,000,000 for NC contacts

C•• contact block:

10,000,000 for NC contacts

Mechanical interlock, not coded:

type 1 acc. to EN ISO 14119

Tightening torques for installation:

see page 225

Electrical data

Rated impulse withstand voltage (U_{imp}):

4 kV

Conditional short circuit current:

1000 A acc. to EN 60947-5-1

Pollution degree:

3

In compliance with standards:

IEC 60947-5-1, EN 60947-5-1, IEC 60947-1, EN 60947-1, IEC 60204-1, EN 60204-1, EN ISO 14119, EN ISO 12100, EN 60529, EN IEC 63000, ISO 20653, UL 508, CSA C22.2 No. 14.

Compliance with the requirements of:

Low Voltage Directive 2014/35/EU, EMC Directive 2014/30/EU,

RoHS Directive 2011/65/EU.

Positive contact opening in conformity with standards:

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

⚠ Installation for safety applications:

Use only switches marked with the $\oplus$ symbol beside the product code. Always connect the safety circuit to the **NC contacts** (normally closed contacts: see "Internal cable wiring" on page 116) as required by **EN ISO 14119, paragraph 5.4** for specific interlock applications and **EN ISO 13849-2 tables D3** (well-tries components) and **D.8** (fault exclusions) for safety applications in general. Actuate the switch **at least up to the positive opening travel** shown in the travel diagrams on page 226. Actuate the switch **at least with the positive opening force**, reported in brackets below each article, next to the actuating force value. All applicable standards must be respected too.

⚠ If not expressly indicated in this chapter, for correct installation and utilization of all articles see chapter Utilization requirements from page 217 to page 232.

⚠ Important: Switch off the circuit voltage before disconnecting the connector from the switch. The connector is not suitable for separation of electrical loads.

Features approved by IMQ

Rated insulation voltage (U_i): 250 Vac
 Conventional free air thermal current (I_n): 10 A (1-2 contacts) / 6 A (2-3 contacts) / 4 A (4 contacts or 4-pole M12 connector)
 Protection against short circuits (fuse): 10 A (1-2 contacts) / 6 A (2-3 contacts) / 4 A (4 contacts or 4-pole M12 connector) type gG
 Rated impulse withstand voltage (U_{imp}): 4 kV
 Protection degree of the housing: IP67 / IP69K
 Terminals: integrated or connector plug
 Pollution degree: 3
 Utilization category: AC15 / DC13 (with connector)
 Operating voltage (U_o): 250 Vac (50 Hz) / 24 Vdc (with connector)
 Operating current (I_o): 3 A / 2 A (with connector)

Forms of the contact element: X, Y, X+Y, X+X, Y+Y, Y+Y+X, X+X+Y, X+X+Y+Y, Zb
 Positive opening of contacts on contact blocks B01, B11, B02, B12, B21, B22, G01, G11, G02, G12, G21, G22, L01, L11, L02, L12, L21, L22, H01, H11, H02, H12, H21, H22

In compliance with standards: EN 60947-1, EN 60947-5-1, fundamental requirements of the Low Voltage Directive 2014/35/EU.

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

Features approved by UL

Electrical Ratings: R300 pilot duty (28 VA, 125 250 Vdc)
 B300 pilot duty (360 VA, 120 240 Vac) (1 cont.)
 B300 pilot duty (360 VA, 120 240 Vac) (2 - 3 cont. without connector)
 C300 pilot duty (180 VA, 120 240 Vac) (2 - 3 cont. with connector)
 C300 pilot duty (180 VA, 120 240 Vac) (4 cont.)
 Environmental Ratings: Types 1, 4X, 6, 12, 13
 Types 1, 4X "indoor use only" (1 - 2 cont. with "E" type cable)
 Screws torque of the detachable connector housing nominal is 0.2 ÷ 0.3 Nm.

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



Ambient temperatures for switches with cable and electrical data

Connection type		Output with cable						Output with M12 connector		Output with AMP connector
Contact block		2 contacts			3 contacts	4 contacts		2 contacts	3 or 4 contacts	2 contacts
Cable or connector type		E	N	H	N	N	H	M12 connector, 4-pole	M12 connector, 8-pole	AMP Superseal 1.5 connector
Cable features	Conductors	4x0.75 mm ²	4x0.75 mm ²	4x0.75 mm ²	6x0.5 mm ²	8x0.34 mm ²	8x0.34 mm ²	4x0.34 mm ²	8x0.25mm ²	
	Application field	General	General	General, mobile installation	General	General	General, mobile installation	General	General	General
	In compliance with standards	H05VV-F	05VV5-F	05EQ-H	03VV-F	03VV-F	03E7Q-H	03VV-H	03VV-H	/
	Sheath	PVC	PVC OIL RESISTANT	PUR HALOGEN FREE	PVC OIL RESISTANT	PVC OIL RESISTANT	PUR HALOGEN FREE	PVC OIL RESISTANT	PVC OIL RESISTANT	/
	Self-extinguishing	IEC 60332-1-2	IEC 60332-1-2 UL 758:FT1 CEI 20-22 II	IEC60332-1-2 UL 758:FT1	IEC 60332-1-2 UL 758:FT1 CEI 20-22 II	IEC 60332-1-2 UL 758:FT1 CEI 20-22 II	IEC 60332-1-2 UL 758:FT1	IEC60332-1-2 UL 758:FT1 CEI 20-22 II	IEC60332-1-2 UL 758:FT1 CEI 20-22 II	/
	Oil resistant	/	UL 758 CSA 22.2 N°210	UL 758 CSA 22.2 N°210	UL 758 CSA 22.2 N°210	UL 758 CSA 22.2 N°210	UL 758 CSA 22.2 N°210	UL 758 CSA 22.2 N°210	UL 758 CSA 22.2 N°210	/
	Max. speed	/	/	300 m/min	/	/	300 m/min	50 m/min	50 m/min	/
	Max. acceleration	/	/	30 m/s ²	/	/	30 m/s ²	5 m/s ²	5 m/s ²	/
	Minimum bending radius	70 mm	70 mm	70 mm	108 mm	108 mm	70 mm	75 mm	90 mm	/
	Outer diameter	7 mm	7 mm	7 mm	7 mm	7 mm	7 mm	6 mm	6 mm	/
	End stripped	80 mm	80 mm	80 mm	80 mm	80 mm	80 mm	/	/	/
Ambient temperature with cable extended (T ₆) standard	Cable, fixed installation	-15°C +60°C	-25°C +80°C	-25°C +80°C	-25°C +80°C	-25°C +80°C	-25°C +80°C	-25°C +80°C	-25°C +80°C	/
	Cable, flexible installation	+5°C +60°C	-5°C +80°C	-25°C +80°C	-5°C +80°C	-5°C +80°C	-25°C +80°C	-15°C +80°C	-15°C +80°C	/
	Cable, mobile installation	/	/	-25°C +80°C	/	/	-25°C +80°C	-15°C +80°C	-15°C +80°C	/
	Cable, fixed installation	/	/	-40°C +80°C	/	/	-40°C +80°C	/	/	/
	Cable, flexible installation	/	/	-40°C +80°C	/	/	-40°C +80°C	/	/	/
	Cable, mobile installation	/	/	-40°C +80°C	/	/	-40°C +80°C	/	/	/
Electrical data	Thermal current I _{th}	10 A	10 A	10 A	6 A	3 A	3 A	4 A	2 A	10 A
	Rated insulation voltage U _i	250 Vac	250 Vac	250 Vac	250 Vac	250 Vac	250 Vac	250 Vac 300 Vdc	30 Vac 36 Vdc	250 Vac 300 Vdc
	Protection against short circuits (fuse)	10 A 500 V type gG	10 A 500 V type gG	10 A 500 V type gG	6 A 500 V type gG	3 A 500 V type gG	3 A 500 V type gG	4 A 500 V type gG	2 A 500 V type gG	10 A 500 V type gG
	Utilization category DC13	24 V	2 A	2 A	2 A	2 A	2 A	2 A	2 A	2 A
		125 V	0.4 A	0.4 A	0.4 A	0.4 A	0.4 A	0.4 A	/	0.4 A
		250 V	0.3 A	0.3 A	0.3 A	0.3 A	0.3 A	0.3 A	/	0.3 A
	Utilization category AC15	24 V	4 A	4 A	4 A	4 A	3 A	4 A	2 A	4 A
		120 V	4 A	4 A	4 A	4 A	3 A	4 A	/	4 A
		250 V	4 A	4 A	4 A	4 A	3 A	4 A	/	4 A
	Approvals	CE cULus IMQ EAC CCC	CE cULus IMQ EAC CCC	CE cULus EAC	CE cULus IMQ EAC CCC	CE cULus IMQ EAC CCC	CE cULus EAC	CE cULus IMQ EAC CCC	CE cULus EAC	CE cULus EAC CCC

Internal cable wiring

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

Connector pin assignment

2NO+2NC	1NO+2NC	1NO+1NC	2NC	1NO+1NC change-over

Female connectors See page 200

Contact type

R = snap action
L = slow action

Contact block

				External gasket
B11	R NF B110AA-DN2 → 1NO+1NC	R NF B110AB-DN2 → 1NO+1NC	R NF B110AC-DN2 → 1NO+1NC	R NF B110AE-DN2 → 1NO+1NC
B02	R NF B020AA-DN2 → 2NC	R NF B020AB-DN2 → 2NC	R NF B020AC-DN2 → 2NC	R NF B020AE-DN2 → 2NC
B12	R NF B120AA-DN2 → 1NO+2NC	R NF B120AB-DN2 → 1NO+2NC	R NF B120AC-DN2 → 1NO+2NC	R NF B120AE-DN2 → 1NO+2NC
B22	R NF B220AA-DN2 → 2NO+2NC	R NF B220AB-DN2 → 2NO+2NC	R NF B220AC-DN2 → 2NO+2NC	R NF B220AE-DN2 → 2NO+2NC
G11	L NF G110AA-DN2 → 1NO+1NC	L NF G110AB-DN2 → 1NO+1NC	L NF G110AC-DN2 → 1NO+1NC	L NF G110AE-DN2 → 1NO+1NC
G02	L NF G020AA-DN2 → 2NC	L NF G020AB-DN2 → 2NC	L NF G020AC-DN2 → 2NC	L NF G020AE-DN2 → 2NC
G12	L NF G120AA-DN2 → 1NO+2NC	L NF G120AB-DN2 → 1NO+2NC	L NF G120AC-DN2 → 1NO+2NC	L NF G120AE-DN2 → 1NO+2NC
G22	L NF G220AA-DN2 → 2NO+2NC	L NF G220AB-DN2 → 2NO+2NC	L NF G220AC-DN2 → 2NO+2NC	L NF G220AE-DN2 → 2NO+2NC
Max. speed	page 225 - type 4	page 225 - type 4	page 225 - type 4	page 225 - type 4
Actuating force	7 N (25 N →)	7 N (25 N →)	7 N (25 N →)	7 N (25 N →)
Travel diagrams	page 226 - group 1	page 226 - group 1	page 226 - group 1	page 226 - group 1

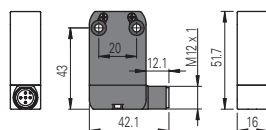
Contact type

R = snap action
L = slow action

Contact block

	With 316L stainless steel roller on request	External gasket With 316L stainless steel roller on request	External gasket With 316L stainless steel roller on request	With steel roller with self-lubrication or 316L stainless steel on request
B11	R NF B110BB-DN2 → 1NO+1NC	R NF B110BE-DN2 → 1NO+1NC	R NF B110BG-DN2 → 1NO+1NC	R NF B110CB-DN2 → 1NO+1NC
B02	R NF B020BB-DN2 → 2NC	R NF B020BE-DN2 → 2NC	R NF B020BG-DN2 → 2NC	R NF B020CB-DN2 → 2NC
B12	R NF B120BB-DN2 → 1NO+2NC	R NF B120BE-DN2 → 1NO+2NC	R NF B120BG-DN2 → 1NO+2NC	R NF B120CB-DN2 → 1NO+2NC
B22	R NF B220BB-DN2 → 2NO+2NC	R NF B220BE-DN2 → 2NO+2NC	R NF B220BG-DN2 → 2NO+2NC	R NF B220CB-DN2 → 2NO+2NC
G11	L NF G110BB-DN2 → 1NO+1NC	L NF G110BE-DN2 → 1NO+1NC	L NF G110BG-DN2 → 1NO+1NC	L NF G110CB-DN2 → 1NO+1NC
G02	L NF G020BB-DN2 → 2NC	L NF G020BE-DN2 → 2NC	L NF G020BG-DN2 → 2NC	L NF G020CB-DN2 → 2NC
G12	L NF G120BB-DN2 → 1NO+2NC	L NF G120BE-DN2 → 1NO+2NC	L NF G120BG-DN2 → 1NO+2NC	L NF G120CB-DN2 → 1NO+2NC
G22	L NF G220BB-DN2 → 2NO+2NC	L NF G220BE-DN2 → 2NO+2NC	L NF G220BG-DN2 → 2NO+2NC	L NF G220CB-DN2 → 2NO+2NC
Max. speed	page 225 - type 2	page 225 - type 5	page 225 - type 5	page 225 - type 3
Actuating force	7 N (25 N →)	7 N (25 N →)	7 N (25 N →)	5 N (25 N →)
Travel diagrams	page 226 - group 1	page 226 - group 1	page 226 - group 1	page 226 - group 2

M12 connector, right

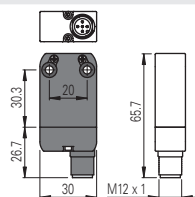


To order a product with M12 right connector, replace DN2 with DMK in the codes shown above.

Example:

NF B110AA-DN2 → NF B110AA-DMK

M12 connector, bottom

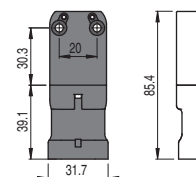


To order a product with M12 bottom connector, replace DN2 with SMK in the codes shown above.

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:

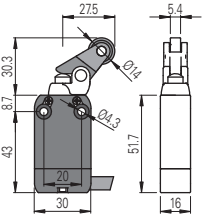
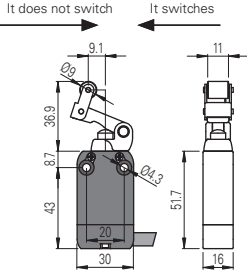
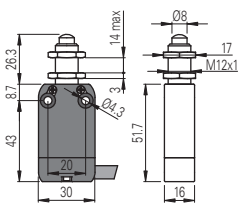
NF B110AA-DN2 → NF B110AA-SAK

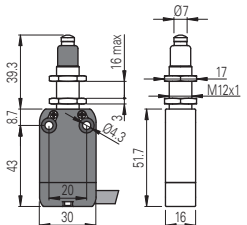
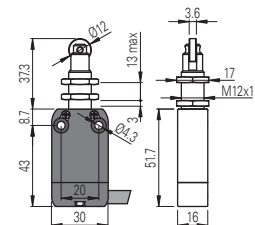
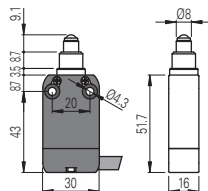
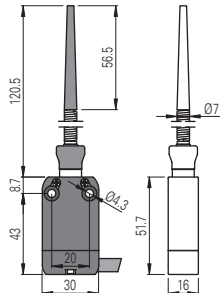
All values in the drawings are in mm

Accessories See page 195

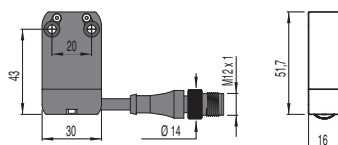
→ The 2D and 3D files are available at www.pizzato.com



Contact type	With steel roller with self-lubrication or 316L stainless steel on request		Unidirectional operation		Secured only by means of threaded head	
						
R = snap action L = slow action						
Contact block						
B11 R	NF B110CH-DN2	1NO+1NC	NF B110CP-DN2	1NO+1NC	NF B110CV-DN2	1NO+1NC
B02 R	NF B020CH-DN2	2NC	NF B020CP-DN2	2NC	NF B020CV-DN2	2NC
B12 R	NF B120CH-DN2	1NO+2NC	NF B120CP-DN2	1NO+2NC	NF B120CV-DN2	1NO+2NC
B22 R	NF B220CH-DN2	2NO+2NC	NF B220CP-DN2	2NO+2NC	NF B220CV-DN2	2NO+2NC
G11 L	NF G110CH-DN2	1NO+1NC	NF G110CP-DN2	1NO+1NC	NF G110CV-DN2	1NO+1NC
G02 L	NF G020CH-DN2	2NC	NF G020CP-DN2	2NC	NF G020CV-DN2	2NC
G12 L	NF G120CH-DN2	1NO+2NC	NF G120CP-DN2	1NO+2NC	NF G120CV-DN2	1NO+2NC
G22 L	NF G220CH-DN2	2NO+2NC	NF G220CP-DN2	2NO+2NC	NF G220CV-DN2	2NO+2NC
Max. speed	page 225 - type 3		page 225 - type 3		page 225 - type 3	
Actuating force	5 N (25 N $\rightarrow$)		3 N (25 N $\rightarrow$)		3 N (25 N $\rightarrow$)	
Travel diagrams	page 226 - group 2		page 226 - group 6		page 226 - group 3	

Contact type	Secured only by means of threaded head		Secured only by means of threaded head		Plunger with Ø 6 mm ball		External gasket	
	External gasket		With 316L stainless steel roller on request					
R = snap action L = slow action								
Contact block								
B11 R	NF B110EE-DN2	1NO+1NC	NF B110FB-DN2	1NO+1NC	NF B110GB-DN2	1NO+1NC	NF B110HB-DN2	1NO+1NC
B02 R	NF B020EE-DN2	2NC	NF B020FB-DN2	2NC	NF B020GB-DN2	2NC	NF B020HB-DN2	2NC
B12 R	NF B120EE-DN2	1NO+2NC	NF B120FB-DN2	1NO+2NC	NF B120GB-DN2	1NO+2NC	NF B120HB-DN2	1NO+2NC
B22 R	NF B220EE-DN2	2NO+2NC	NF B220FB-DN2	2NO+2NC	NF B220GB-DN2	2NO+2NC	NF B220HB-DN2	2NO+2NC
G11 L	NF G110EE-DN2	1NO+1NC	NF G110FB-DN2	1NO+1NC	NF G110GB-DN2	1NO+1NC	/	/
G02 L	NF G020EE-DN2	2NC	NF G020FB-DN2	2NC	NF G020GB-DN2	2NC	NF G020HB-DN2	2NC
G12 L	NF G120EE-DN2	1NO+2NC	NF G120FB-DN2	1NO+2NC	NF G120GB-DN2	1NO+2NC	/	/
G22 L	NF G220EE-DN2	2NO+2NC	NF G220FB-DN2	2NO+2NC	NF G220GB-DN2	2NO+2NC	/	/
Max. speed	page 225 - type 4		page 225 - type 2		page 225 - type 2		1 m/s	
Actuating force	7 N (25 N $\rightarrow$)		7 N (25 N $\rightarrow$)		7 N (25 N $\rightarrow$)		0.03 Nm	
Travel diagrams	page 226 - group 1		page 226 - group 1		page 226 - group 1		page 226 - group 4	

Cable and M12 connector

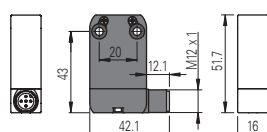


To order a product with cable and M12 connector:
replace DN2 with DM0.2 in the codes shown above. Example:
NF B110AA-DN2 → NF B110AA-DM0.2

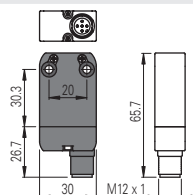
Contact type	External gasket		External gasket		with self-lubrication or stainless steel on request		with self-lubrication or stainless steel on request				
R = snap action L = slow action											
Contact block											
B11	R	NF B110HE-DN2	1NO+1NC	NF B110HH-DN2	1NO+1NC	NF B112KA-DN2	↻	1NO+1NC	NF B112KB-DN2	↻	1NO+1NC
B02	R	NF B020HE-DN2	2NC	NF B020HH-DN2	2NC	NF B022KA-DN2	↻	2NC	NF B022KB-DN2	↻	2NC
B12	R	NF B120HE-DN2	1NO+2NC	NF B120HH-DN2	1NO+2NC	NF B122KA-DN2	↻	1NO+2NC	NF B122KB-DN2	↻	1NO+2NC
B22	R	NF B220HE-DN2	2NO+2NC	NF B220HH-DN2	2NO+2NC	NF B222KA-DN2	↻	2NO+2NC	NF B222KB-DN2	↻	2NO+2NC
G11	L	/	/	/	/	NF G112KA-DN2	↻	1NO+1NC	NF G112KB-DN2	↻	1NO+1NC
G02	L	NF G020HE-DN2	2NC	NF G020HH-DN2	2NC	NF G022KA-DN2	↻	2NC	NF G022KB-DN2	↻	2NC
G12	L	/	/	/	/	NF G122KA-DN2	↻	1NO+2NC	NF G122KB-DN2	↻	1NO+2NC
G22	L	/	/	/	/	NF G222KA-DN2	↻	2NO+2NC	NF G222KB-DN2	↻	2NO+2NC
Max. speed	1 m/s		1 m/s		page 225 - type 1		page 225 - type 1				
Actuating force	0.07 Nm		0.03 Nm		0.07 Nm (0.25 Nm ↻)		0.07 Nm (0.25 Nm ↻)				
Travel diagrams	page 226 - group 4		page 226 - group 4		page 226 - group 5		page 226 - group 5				

Contact type	With steel roller with self-lubrication or 316L stainless steel on request		With steel roller with self-lubrication or 316L stainless steel on request		With steel roller with self-lubrication or 316L stainless steel on request		With steel roller with self-lubrication or 316L stainless steel on request	
R = snap action L = slow action								
Contact block								
B11	R	NF B112KC-DN2 1NO+1NC	NF B112KD-DN2 1NO+1NC	NF B112KE-DN2 1NO+1NC	NF B112KF-DN2 1NO+1NC			
B02	R	NF B022KC-DN2 2NC	NF B022KD-DN2 2NC	NF B022KE-DN2 2NC	NF B022KF-DN2 2NC			
B12	R	NF B122KC-DN2 1NO+2NC	NF B122KD-DN2 1NO+2NC	NF B122KE-DN2 1NO+2NC	NF B122KF-DN2 1NO+2NC			
B22	R	NF B222KC-DN2 2NO+2NC	NF B222KD-DN2 2NO+2NC	NF B222KE-DN2 2NO+2NC	NF B222KF-DN2 2NO+2NC			
G11	L	NF G112KC-DN2 1NO+1NC	NF G112KD-DN2 1NO+1NC	NF G112KE-DN2 1NO+1NC	NF G112KF-DN2 1NO+1NC			
G02	L	NF G022KC-DN2 2NC	NF G022KD-DN2 2NC	NF G022KE-DN2 2NC	NF G022KF-DN2 2NC			
G12	L	NF G122KC-DN2 1NO+2NC	NF G122KD-DN2 1NO+2NC	NF G122KE-DN2 1NO+2NC	NF G122KF-DN2 1NO+2NC			
G22	L	NF G222KC-DN2 2NO+2NC	NF G222KD-DN2 2NO+2NC	NF G222KE-DN2 2NO+2NC	NF G222KF-DN2 2NO+2NC			
Max. speed	page 225 - type 1		page 225 - type 1		page 225 - type 1		page 225 - type 1	
Actuating force	0.07 Nm (0.25 Nm)		0.07 Nm (0.25 Nm)		0.07 Nm (0.25 Nm)		0.07 Nm (0.25 Nm)	
Travel diagrams	page 226 - group 5		page 226 - group 5		page 226 - group 5		page 226 - group 5	

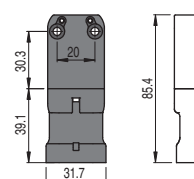
M12 connector, right



M12 connector, bottom



AMP Superseal 1.5 connector



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

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

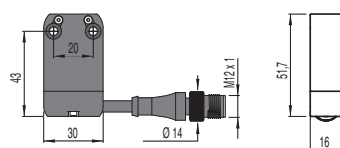
To order a product with AMP connector, replace DN2 with SAK in the codes shown above. Example:
NF B110AA-DN2 → NF B110AA-SAK



Contact type	With steel roller with self-lubrication or 316L stainless steel on request			Square rod, 3x3 mm, stainless steel
R = snap action L = slow action				
Contact block				
B11 R	NF B112KG-DN2	1NO+1NC	NF B112KH-DN2	1NO+1NC
B02 R	NF B022KG-DN2	2NC	NF B022KH-DN2	2NC
B12 R	NF B122KG-DN2	1NO+2NC	NF B122KH-DN2	1NO+2NC
B22 R	NF B222KG-DN2	2NO+2NC	NF B222KH-DN2	2NO+2NC
G11 L	NF G112KG-DN2	1NO+1NC	NF G112KH-DN2	1NO+1NC
G02 L	NF G022KG-DN2	2NC	NF G022KH-DN2	2NC
G12 L	NF G122KG-DN2	1NO+2NC	NF G122KH-DN2	1NO+2NC
G22 L	NF G222KG-DN2	2NO+2NC	NF G222KH-DN2	2NO+2NC
Max. speed	page 225 - type 1			1.5 m/s
Actuating force	0.07 Nm (0.25 Nm)			0.07 Nm
Travel diagrams	page 226 - group 5			page 226 - group 5

Contact type	Round rod, Ø 3 mm, stainless steel	Glass fibre rod		Porcelain roller
R = snap action L = slow action				
Contact block				
B11 R	NF B112LE-DN2	1NO+1NC	NF B112LH-DN2	1NO+1NC
B02 R	NF B022LE-DN2	2NC	NF B022LH-DN2	2NC
B12 R	NF B122LE-DN2	1NO+2NC	NF B122LH-DN2	1NO+2NC
B22 R	NF B222LE-DN2	2NO+2NC	NF B222LH-DN2	2NO+2NC
G11 L	NF G112LE-DN2	1NO+1NC	NF G112LH-DN2	1NO+1NC
G02 L	NF G022LE-DN2	2NC	NF G022LH-DN2	2NC
G12 L	NF G122LE-DN2	1NO+2NC	NF G122LH-DN2	1NO+2NC
G22 L	NF G222LE-DN2	2NO+2NC	NF G222LH-DN2	2NO+2NC
Max. speed	1.5 m/s	1.5 m/s	1.5 m/s	0.5 m/s
Actuating force	0.07 Nm	0.07 Nm	0.07 Nm	0.04 Nm
Travel diagrams	page 226 - group 5	page 226 - group 5	page 226 - group 5	page 226 - group 5

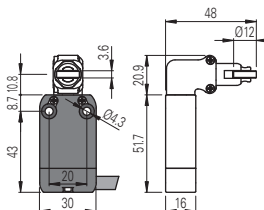
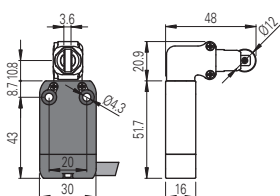
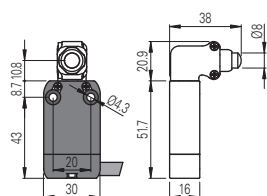
Cable and M12 connector



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

Contact type

R = snap action
L = slow action



Contact block

B11	R	NF B110AB-DN2W5	➔	1NO+1NC	NF B110BB-DN2H0W5	➔	1NO+1NC	NF B110BB-DN2W5	➔	1NO+1NC
B02	R	NF B020AB-DN2W5	➔	2NC	NF B020BB-DN2H0W5	➔	2NC	NF B020BB-DN2W5	➔	2NC
B12	R	NF B120AB-DN2W5	➔	1NO+2NC	NF B120BB-DN2H0W5	➔	1NO+2NC	NF B120BB-DN2W5	➔	1NO+2NC
B22	R	NF B220AB-DN2W5	➔	2NO+2NC	NF B220BB-DN2H0W5	➔	2NO+2NC	NF B220BB-DN2W5	➔	2NO+2NC
G11	L	NF G110AB-DN2W5	➔	1NO+1NC	NF G110BB-DN2H0W5	➔	1NO+1NC	NF G110BB-DN2W5	➔	1NO+1NC
G02	L	NF G020AB-DN2W5	➔	2NC	NF G020BB-DN2H0W5	➔	2NC	NF G020BB-DN2W5	➔	2NC
G12	L	NF G120AB-DN2W5	➔	1NO+2NC	NF G120BB-DN2H0W5	➔	1NO+2NC	NF G120BB-DN2W5	➔	1NO+2NC
G22	L	NF G220AB-DN2W5	➔	2NO+2NC	NF G220BB-DN2H0W5	➔	2NO+2NC	NF G220BB-DN2W5	➔	2NO+2NC
Max. speed	page 225 - type 4				page 225 - type 2				page 225 - type 2	
Actuating force	9.5 N (25 N ➔)				9.5 N (25 N ➔)				9.5 N (25 N ➔)	
Travel diagrams	page 226 - group 1				page 226 - group 1				page 226 - group 1	

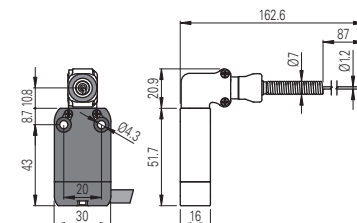
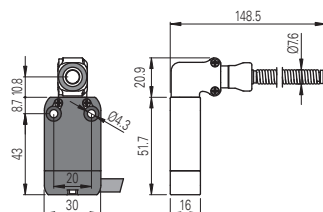
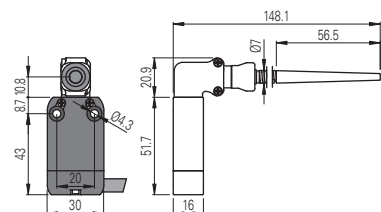
Contact type

R = snap action
L = slow action

External gasket

External gasket

External gasket



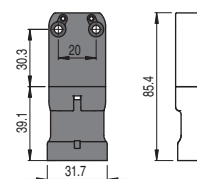
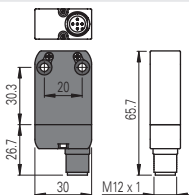
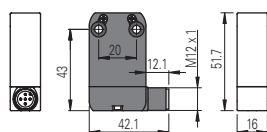
Contact block

B11	R	NF B110HB-DN2W5		1NO+1NC	NF B110HE-DN2W5		1NO+1NC	NF B110HH-DN2W5		1NO+1NC
B02	R	NF B020HB-DN2W5		2NC	NF B020HE-DN2W5		2NC	NF B020HH-DN2W5		2NC
B12	R	NF B120HB-DN2W5		1NO+2NC	NF B120HE-DN2W5		1NO+2NC	NF B120HH-DN2W5		1NO+2NC
B22	R	NF B220HB-DN2W5		2NO+2NC	NF B220HE-DN2W5		2NO+2NC	NF B220HH-DN2W5		2NO+2NC
G11	L	/		/	/		/	/		/
G02	L	NF G020HB-DN2W5		2NC	NF G020HE-DN2W5		2NC	NF G020HH-DN2W5		2NC
G12	L	/		/	/		/	/		/
G22	L	/		/	/		/	/		/
Max. speed	1 m/s				1 m/s				1 m/s	
Actuating force	0.08 Nm				0.12 Nm				0.08 Nm	
Travel diagrams	page 226 - group 4				page 226 - group 4				page 226 - group 4	

M12 connector, right

M12 connector, bottom

AMP Superseal 1.5 connector



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

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

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

All values in the drawings are in mm

Accessories See page 195

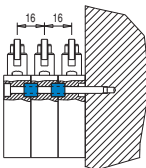
→ The 2D and 3D files are available at www.pizzato.com

Accessories

Packs of **10 pcs.**

Article	Description
VN DT1F	Spacer for NA and NF series

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.



M12 female connectors with cable



Features:

- Polyurethane connector body
- Class 6 copper conductors acc. to IEC 60228 - mobile installation
- Gold-plated contacts
- Anti-vibration self-locking ring nut made of nickel-plated brass, available on request in AISI 316L stainless steel hex version
- High flexibility cable with oil resistant PVC or PUR sheath suitable to be used in drag chains, acc. to IEC 60332-1-2

Code structure

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

article		options	
VF CA4PD3M-X			
No. of poles		Connection type	
4	4 poles	M	M12x1
5	5 poles		
8	8 poles		
12	12 poles		
Cable sheath		Fixing ring	
P	PVC (standard)		knurled ring (standard)
U	PUR	X	stainless steel hex ring nut
Connector type		Cable length (L)	
D	straight (standard)	1	1 metre
G	angled	2	2 metres
		3	3 metres (standard)
		4	4 metres
		5	5 metres (standard)
		...	
		10	10 metres (standard)
		Other lengths on request.	

Stock items

VF CA4PD3M
VF CA4PD5M
VF CA4PD10M
VF CA5PD3M
VF CA5PD5M
VF CA5PD10M
VF CA8PD3M
VF CA8PD5M
VF CA8PD10M
VF CA8PD20M
VF CA12PD3M
VF CA12PD5M
VF CA12PD10M
VF CA12PD20M
VF CA12PD30M
VF CA8UD5M-X
VF CA8UD10M-X
VF CA12UD10M-X

Attention! For items not in stock the minimum order quantity is 100 pcs.

Field wireable M12 female connectors



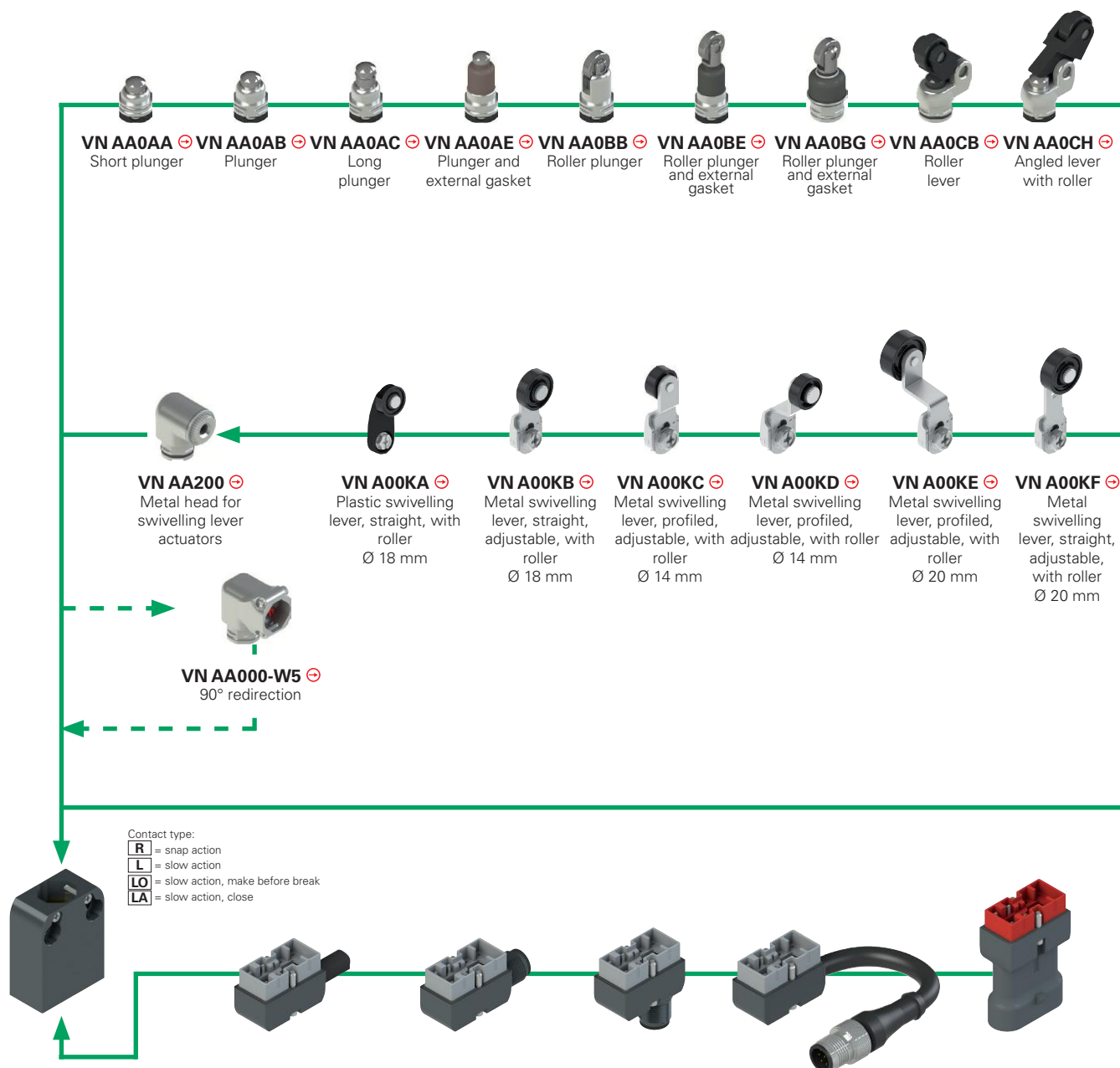
General data

Technopolymer connector body	
Gold-plated contacts	
Screw terminals for cable screw fittings	
Max. operating voltages	250 Vac/dc (4 and 5-pole) 30 Vac/dc (8-pole)
Maximum current	4 A (4 and 5-pole) 2 A (8-pole)
Protection degree	IP67 acc. to EN 60529
Ambient temperature	-25°C ... +85°C
Wire cross-section	0.25 mm ² (23 AWG) ... 0.5 mm ² (20 AWG)
Tightening torque:	0.6 ... 0.8 Nm

Article	Description	no. of poles
VF CBMP4DM04	Field wireable M12 female connector, straight, for Ø 4 ... Ø 6.5 mm multipolar cables	4
VF CBMP5DM04	Field wireable M12 female connector, straight, for Ø 4 ... Ø 6.5 mm multipolar cables	5
VF CBMP8DM04	Field wireable M12 female connector, straight, for Ø 4 ... 7 mm multipolar cables	8

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

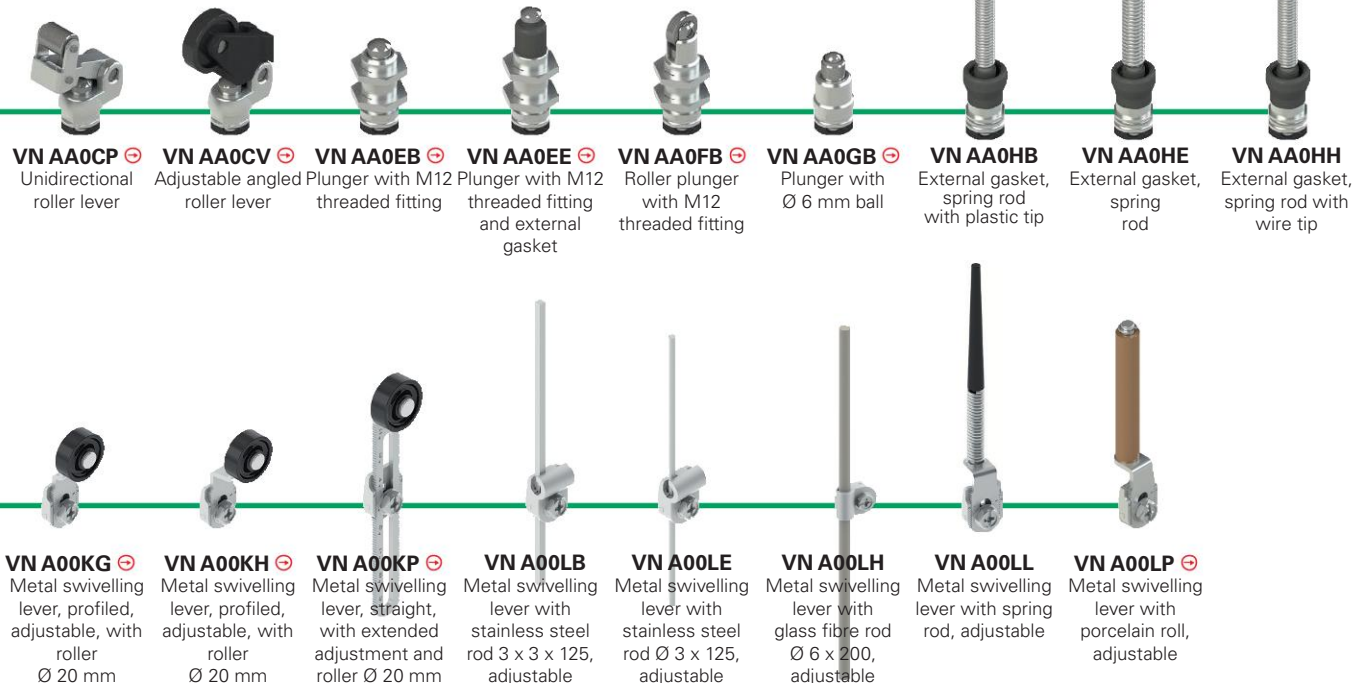
Selection diagram for item combinations of the NA, NB, NF series



Metal housing, NA hole spacing 20 mm		Metal connector with cable	Cable length (m)		M12 metal connector, right		M12 metal connector, bottom		Metal connector with cable and M12 connector	Cable length (m)		AMP technopolymer connector, bottom
NA B11000 ⊕ 1NO+1NC R		VN CM11DN2	2	↔		↔		↔			↔	
NA G11000 ⊕ 1NO+1NC L		VN CM11DN5	5		VN CM11DMK	↔	VN CM11SMK	↔	VN CM11DM0.2	0.2	↔	VN CM11SAK
NA L11000 ⊕ 1NO+1NC LA												
NA H11000 ⊕ 1NO+1NC LO												
NA B02000 ⊕ 2NC R		VN CM02DN2	2	↔		↔		↔			↔	
NA G02000 ⊕ 2NC L		VN CM02DN5	5		VN CM02DMK	↔	VN CM02SMK	↔	VN CM02DM0.2	0.2	↔	VN CM02SAK
NA B12000 ⊕ 1NO+2NC R												
NA G12000 ⊕ 1NO+2NC L		VN CM12DN2	2	↔		↔		↔			↔	
NA L12000 ⊕ 1NO+2NC LA		VN CM12DN5	5		VN CM12DMK	↔	VN CM12SMK	↔	VN CM12DM0.2	0.2	↔	
NA H12000 ⊕ 1NO+2NC LO												
NA B22000 ⊕ 2NO+2NC R		VN CM22DN2	2	↔		↔		↔			↔	
NA G22000 ⊕ 2NO+2NC L		VN CM22DN5	5		VN CM22DMK	↔	VN CM22SMK	↔	VN CM22DM0.2	0.2	↔	
NA L22000 ⊕ 2NO+2NC LA												
NA H22000 ⊕ 2NO+2NC LO												

To order a NB series housing, replace NA with NB in the codes shown above. Example:
NA B11000 → NB B11000

⚠ It is not allowed to install VN CM***** connectors on technopolymer housings



Contact type:
R = snap action
L = slow action
LO = slow action, make before break
LA = slow action, close

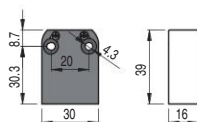
NFTECHNOPOLYMER housing, 20 mm hole spacing	Technopolymer connector with cable	Cable length (m)	M12 technopolymer connector, right	M12 technopolymer connector, bottom	Technopolymer connector with cable and M12 connector	Cable length (m)	AMP technopolymer connector, bottom
NF B11000 ⊕ 1NO+1NC R	VN CP11DN2	2					
NF G11000 ⊕ 1NO+1NC L	VN CP11DN5	5	VN CP11DMK	VN CP11SMK	VN CP11DM0.2	0.2	VN CP11SAK
NF L11000 ⊕ 1NO+1NC LA							
NF H11000 ⊕ 1NO+1NC LO							
NF B02000 ⊕ 2NC R	VN CP02DN2	2	VN CP02DMK	VN CP02SMK	VN CP02DM0.2	0.2	VN CP02SAK
NF G02000 ⊕ 2NC L	VN CP02DN5	5					
NF B20000 ⊕ 2NO R	VN CP20DN2	2	VN CP20DMK	VN CP20SMK	VN CP20DM0.2	0.2	VN CP20SAK
NF G20000 ⊕ 2NO L	VN CP20DN5	5					
NF B12000 ⊕ 1NO+2NC R	VN CP12DN2	2	VN CP12DMK	VN CP12SMK	VN CP12DM0.2	0.2	
NF G12000 ⊕ 1NO+2NC L	VN CP12DN5	5					
NF L12000 ⊕ 1NO+2NC LA							
NF H12000 ⊕ 1NO+2NC LO							
NF B22000 ⊕ 2NO+2NC R	VN CP22DN2	2	VN CP22DMK	VN CP22SMK	VN CP22DM0.2	0.2	
NF G22000 ⊕ 2NO+2NC L	VN CP22DN5	5					
NF L22000 ⊕ 2NO+2NC LA							
NF H22000 ⊕ 2NO+2NC LO							

⚠ It is not allowed to install VN CP***** connectors on metal housings

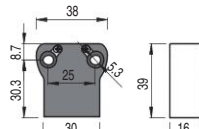
Housings

Contact type:
R = snap action
L = slow action
LO = slow action, make before break
LA = slow action, close

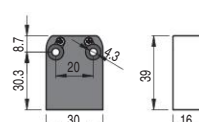
NA metal housings



NB metal housings



NF technopolymer housings



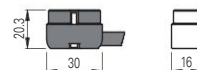
R	NA B11000	➔	1NO+1NC	NB B11000	➔	1NO+1NC	NF B11000	➔	1NO+1NC
L	NA G11000	➔	1NO+1NC	NB G11000	➔	1NO+1NC	NF G11000	➔	1NO+1NC
LA	NA L11000	➔	1NO+1NC	NB L11000	➔	1NO+1NC	NF L11000	➔	1NO+1NC
LO	NA H11000	➔	1NO+1NC	NB H11000	➔	1NO+1NC	NF H11000	➔	1NO+1NC
R	NA B12000	➔	1NO+2NC	NB B12000	➔	1NO+2NC	NF B12000	➔	1NO+2NC
L	NA G12000	➔	1NO+2NC	NB G12000	➔	1NO+2NC	NF G12000	➔	1NO+2NC
LA	NA L12000	➔	1NO+2NC	NB L12000	➔	1NO+2NC	NF L12000	➔	1NO+2NC
LO	NA H12000	➔	1NO+2NC	NB H12000	➔	1NO+2NC	NF H12000	➔	1NO+2NC
R	NA B22000	➔	2NO+2NC	NB B22000	➔	2NO+2NC	NF B22000	➔	2NO+2NC
L	NA G22000	➔	2NO+2NC	NB G22000	➔	2NO+2NC	NF G22000	➔	2NO+2NC
LA	NA L22000	➔	2NO+2NC	NB L22000	➔	2NO+2NC	NF L22000	➔	2NO+2NC
LO	NA H22000	➔	2NO+2NC	NB H22000	➔	2NO+2NC	NF H22000	➔	2NO+2NC

Quality marks:



Connectors with cable

metal connectors for NA and NB housings



technopolymer connectors for NF housings



Cable type	Length (m)				
N PVC	2	VN CM11DN2	1NO+1NC	VN CP11DN2	1NO+1NC
	5	VN CM11DN5	1NO+1NC	VN CP11DN5	1NO+1NC
	2	VN CM12DN2	1NO+2NC	VN CP12DN2	1NO+2NC
	5	VN CM12DN5	1NO+2NC	VN CP12DN5	1NO+2NC
	2	VN CM22DN2	2NO+2NC	VN CP22DN2	2NO+2NC
	5	VN CM22DN5	2NO+2NC	VN CP22DN5	2NO+2NC
H PUR halogen free	2	VN CM11DH2	1NO+1NC	VN CP11DH2	1NO+1NC
	5	VN CM11DH5	1NO+1NC	VN CP11DH5	1NO+1NC
	2	VN CM12DH2	1NO+2NC	VN CP22DH2	2NO+2NC
	5	VN CM12DH5	1NO+2NC	VN CP22DH5	2NO+2NC

Other cable lengths on request

M12 connectors

metal connectors for NA and NB housings

M12 connector, right	M12 connector, bottom	with cable and M12 connector
VN CM11DMK 1NO+1NC	VN CM11SMK 1NO+1NC	VN CM11DM0.2 1NO+1NC
VN CM02DMK 2NC	VN CM02SMK 2NC	VN CM02DM0.2 2NC
VN CM22DMK 2NO+2NC	VN CM22SMK 2NO+2NC	VN CM22DM0.2 2NO+2NC

technopolymer connectors for NF housings

M12 connector, right	M12 connector, bottom	with cable and M12 connector
VN CP11DMK 1NO+1NC	VN CP11SMK 1NO+1NC	VN CP11DM0.2 1NO+1NC
VN CP02DMK 2NC	VN CP02SMK 2NC	VN CP02DM0.2 2NC
VN CP22DMK 2NO+2NC	VN CP22SMK 2NO+2NC	VN CP22DM0.2 2NO+2NC

AMP connectors

technopolymer connectors for NA and NB housings

AMP superseal 1.5
VN CM11SAK 1NO+1NC
VN CM02SAK 2NC
VN CM20SAK 2NO

technopolymer connectors for NF housings

AMP superseal 1.5
VN CP11SAK 1NO+1NC
VN CP02SAK 2NC
VN CP20SAK 2NO

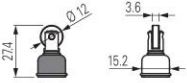
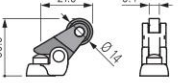
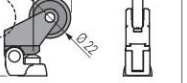
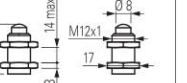
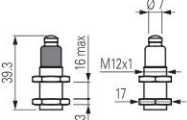
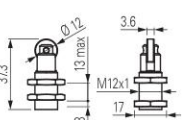
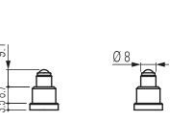
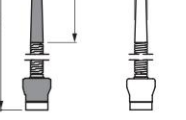
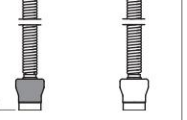
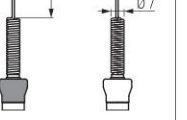
⚠ Important: Always check that the applied electric load is within the voltage and current limits defined for the connectors. See tables on page 106 and 116.

All values in the drawings are in mm

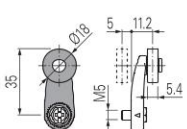
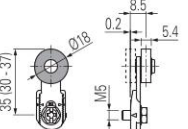
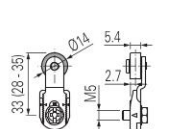
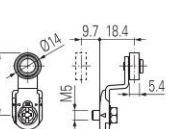
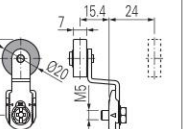
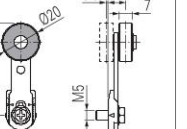
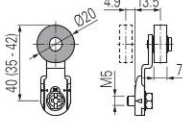
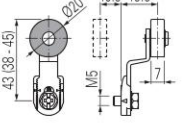
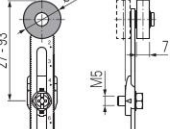
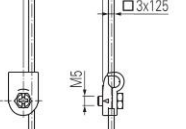
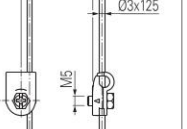
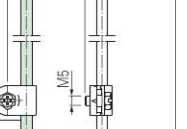
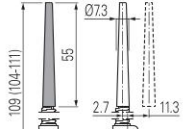
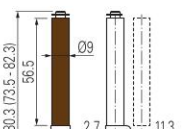
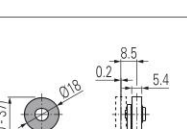
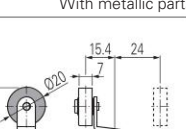
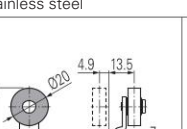
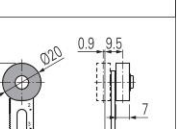
Accessories See page 195

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

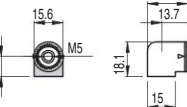
**Actuators**

 8.8 Ø 8	 11.3 Ø 8	 16.1 Ø 8	 21.3 Ø 7 Ø 11.6	 21.3 Ø 12 3.6	 31.3 Ø 12 3.6
VN AA0AA ➔	VN AA0AB ➔	VN AA0AC ➔	VN AA0AE ➔	VN AA0BB ➔	VN AA0BE ➔
 27.4 Ø 12 3.6 15.2	 2.3 30.1 Ø 14 5.4	 27.5 30.3 Ø 14 5.4	 9.1 36.9 Ø 9 11	 31.4(28.4-34.4) 20.2(17.2-23.2) 42.1 Ø 12 5.4	 26.3 14 max M12x1 Ø 8 17
VN AA0BG ➔	VN AA0CB ➔	VN AA0CH ➔	VN AA0CP ➔	VN AA0CV ➔	VN AA0EB ➔
 39.3 16 max M12x1 Ø 7 17	 37.3 13 max M12x1 Ø 12 3.6 17	 9.1 35.8 Ø 8	 119.9 55 Ø 7	 121.8 76	 135.9 87 Ø 1.2 Ø 7
VN AA0EE ➔	VN AA0FB ➔	VN AA0GB ➔	VN AA0HB	VN AA0HE	VN AA0HH

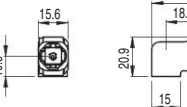
Levers**ATTENTION:** These separate actuators can be used only with items of the NA, NB and NF series.

Technopolymer roller Ø 18 mm	Technopolymer roller Ø 18 mm	Technopolymer roller Ø 14 mm	Technopolymer roller Ø 14 mm	Technopolymer roller Ø 20 mm	Technopolymer roller Ø 20 mm
 35 Ø 18 5 11.2 M5 5.4	 35 (30-37) Ø 18 0.2 8.5 5.4 M5	 33 (28-35) Ø 14 5.4 2.7 M5	 33 (28-35) Ø 14 9.7 18.4 5.4 M5	 40 (38-42) Ø 20 7 15.4 24 M5	 48.6 (43.6-50.6) Ø 20 0.9 9.5 7 M5
VN A00KA ➔	VN A00KB ➔	VN A00KC ➔	VN A00KD ➔	VN A00KE ➔	VN A00KF ➔
Technopolymer roller Ø 20 mm	Technopolymer roller Ø 20 mm	Adjustable safety actuator with technopolymer roller	Adjustable square rod, 3x3x125 mm	Adjustable round rod Ø 3x125 mm	Adjustable glass fibre rod
 40 (35-42) Ø 20 4.9 13.5 M5 7	 43 (38-45) Ø 20 10.9 19.5 M5 7	 27-93 Ø 20 0.9 9.5 7 M5	 4.5 4.8 19-116 3x125 M5	 4.5 4.8 19-116 Ø 3x125 M5	 10 6.1 19-189 Ø 6x200 M5
VN A00KG ➔	VN A00KH ➔	VN A00KP ➔	VN A00LB	VN A00LE	VN A00LH
Spring rod with plastic tip	Porcelain roller	Technopolymer roller Ø 18 mm	Technopolymer roller Ø 20 mm	Technopolymer roller Ø 20 mm	Adjustable safety lever with Ø 20 mm technopolymer roller
 109 (104-111) Ø 7.3 55 2.7 11.3 M5	 80.3 (73.5-82.3) Ø 9 56.5 2.7 11.3 M5	 35 (30-37) Ø 18 0.2 8.5 5.4 M5	 40 (35-42) Ø 20 7 15.4 24 M5	 40 (35-42) Ø 20 4.9 13.5 M5 7	 27-93 Ø 20 0.9 9.5 7 M5
VN A00LL	VN A00LP ➔ ⁽²⁾	VN A00KB-V38 ➔	VN A00KE-V38 ➔	VN A00KG-V38 ➔	VN A00KP-V38 ➔

Heads

 15.6 10.3 M5 18.1 21.2 13.7 15
VN AA200 ➔

90° redirection

 15.6 10.8 20.9 26.2 18.7 15
VN AA000-W5 ➔

All values in the drawings are in mm

Accessories See page 195

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