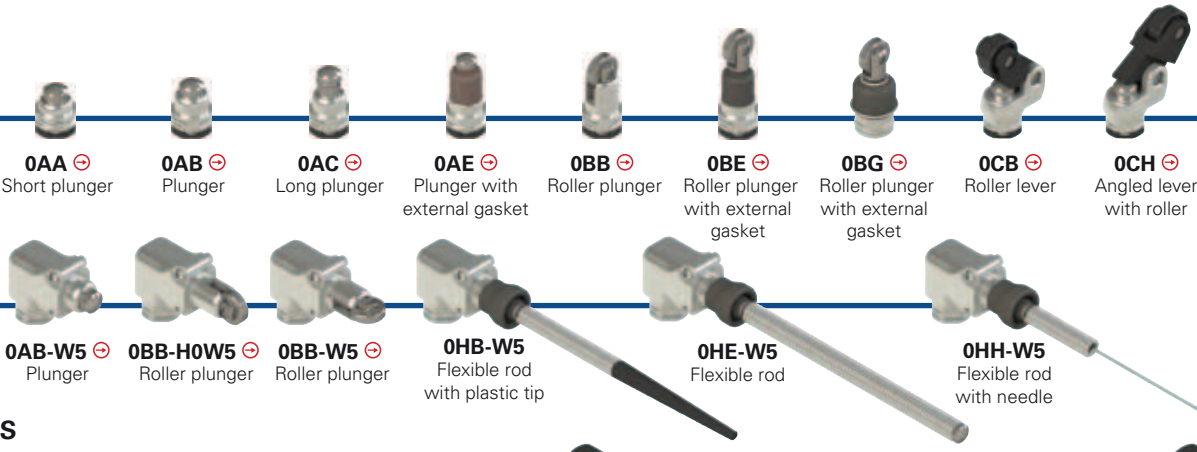
Selection diagram for item combinations of the NF series

ACTUATORS



0AA Short plunger

0AB Plunger

0AC Long plunger

0AE Plunger with external gasket

0BB Roller plunger

0BE Roller plunger with external gasket

0BG Roller plunger with external gasket

0CB Roller lever

0CH Angled lever with roller

0AB-W5 Plunger

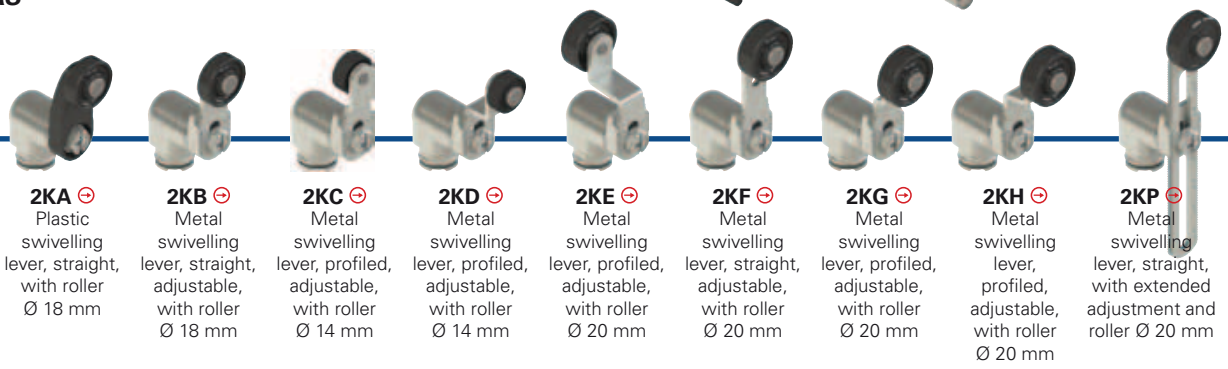
0BB-H0W5 Roller plunger

0BB-W5 Roller plunger

0HB-W5 Flexible rod with plastic tip

0HE-W5 Flexible rod

0HH-W5 Flexible rod with needle



2KA Plastic swivelling lever, straight, with roller Ø 18 mm

2KB Metal swivelling lever, straight, adjustable, with roller Ø 18 mm

2KC Metal swivelling lever, profiled, adjustable, with roller Ø 14 mm

2KD Metal swivelling lever, profiled, adjustable, with roller Ø 14 mm

2KE Metal swivelling lever, profiled, adjustable, with roller Ø 20 mm

2KF Metal swivelling lever, straight, adjustable, with roller Ø 20 mm

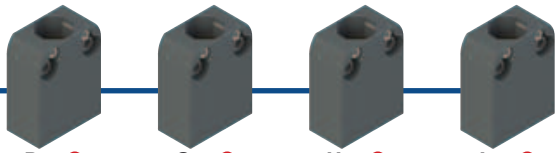
2KG Metal swivelling lever, profiled, adjustable, with roller Ø 20 mm

2KH Metal swivelling lever, profiled, adjustable, with roller Ø 20 mm

2KP Metal swivelling lever, straight, with extended adjustment and roller Ø 20 mm

NF

CONTACT BLOCKS

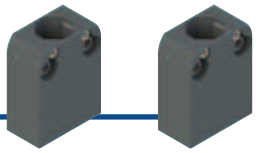


B11 1NO+1NC snap action

G11 1NO+1NC slow action

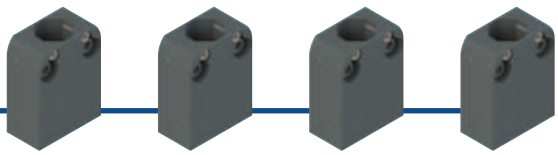
H11 1NO+1NC slow action, make before break

L11 1NO+1NC slow action, close



B02 2NC snap action

G02 2NC slow action

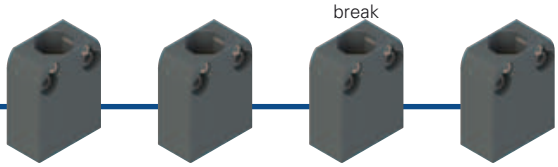


B12 1NO+2NC snap action

G12 1NO+2NC slow action

H12 1NO+2NC slow action, make before break

L12 1NO+2NC slow action, close



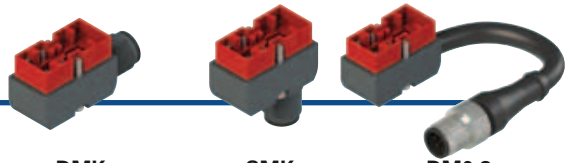
B22 2NO+2NC snap action

G22 2NO+2NC slow action

H22 2NO+2NC slow action, make before break

L22 2NO+2NC slow action, close

CONNECTORS



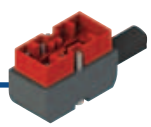
DMK M12 connector, right

SMK M12 connector, bottom

DM0.2 cable and M12 connector

SAK AMP connector, bottom

CABLES

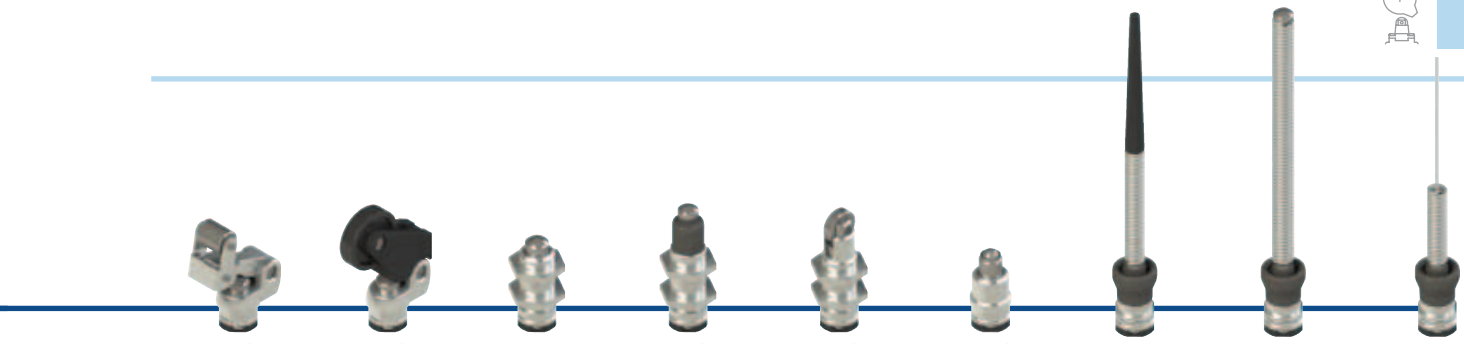


connector with cable

DN	PVC cable IEC 60332-1 (standard)
DG	PVC cable CEI 20-22 II
DH	PUR cable, halogen free

product options

Sold separately as accessory



0CP Unidirectional roller lever

0CV Adjustable angled roller lever

0EB Plunger with M12 threaded fitting

0EE Plunger with M12 threaded fitting, external gasket

0FB Roller plunger with M12 threaded fitting

0GB Plunger with Ø 6 mm ball

0HB Flexible rod with plastic tip

0HE Flexible rod

0HH Flexible rod with needle

2LB Metal swivelling lever with stainless steel rod 3 x 3 x 125 mm, adjustable

2LE Metal swivelling lever with stainless steel rod Ø 3 x 125 mm, adjustable

2LH Metal swivelling lever with glass fibre rod Ø 6 x 200 mm, adjustable

2LL Metal swivelling lever with flexible rod, adjustable

2LP Metal swivelling lever with porcelain roll, adjustable

200 Metal head for swivelling lever actuators

SEPARATE ACTUATORS
See page 135

Code structure

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

article: **NF B110AB-DN2** options: **GR7T6W5**

Housing

NF	technopolymer, hole spacing 20 mm

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)
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

Redirection

	without redirection
W5	90° redirection

Ambient temperature

	-25°C … +80°C (standard)
T6	-40 °C … +80 °C

Rollers

	standard roller
R30	stainless steel Ø 10.6 mm
R29	stainless steel Ø 13 mm
R18	technopolymer, Ø 14 mm
R23	stainless steel Ø 14 mm
R7	technopolymer, Ø 18 mm
R22	technopolymer, Ø 20 mm
R24	stainless steel Ø 20 mm
R19	technopolymer, Ø 22 mm
R25	technopolymer, Ø 35 mm

Contact type

	silver contacts (standard)
G	silver contacts, 1 µm gold coating

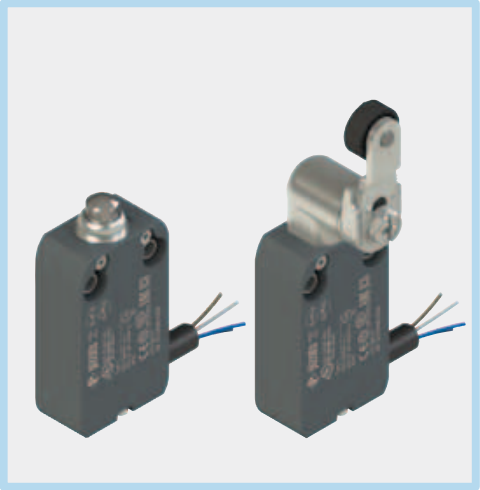
Connection type

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 (standard)
G	PVC cable CEI 20-22 II
H	PUR cable, halogen free
M	M12 connector
A	AMP Superseal 1.5 connector

NF series modular pre-wired technopolymer switches



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 ⊖
- Versions with AMP connector
- 14 contact blocks available
- 37 actuators available

Quality marks:

IMQ approval:	CA02.04562
UL approval:	E131787
CCC approval:	2013010305653520
EAC approval:	RU C-IT.АД35.В.00454

Technical data

Housing

Housing made of glass fibre reinforced technopolymer, self-extinguishing, shock-proof and with double insulation ⧈.
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 0.1 … 3 m available 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 (extended T6)
Ambient temperature for switches with cable:	See table on page 128
Max. actuation frequency:	3600 operating cycles/hour
Mechanical endurance:	20 million operating cycles
Mounting position:	any
Safety parameter B_{10D}:	40,000,000 for NC contacts
Mechanical interlock, not coded:	type 1 acc. to EN ISO 14119
Tightening torques for installation:	see page 211-222

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 60204-1, EN 60204-1, EN ISO 14119, EN ISO 12100, EN 60529, ISO 20653, UL 508, CSA 22.2 No.14.

Compliance with the requirements of:
Low Voltage Directive 2014/35/EU, EMC Directive 2014/30/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 symbol ⊖ next to the product code. Always connect the safety circuit to the **NC contacts** (normally closed contacts: see "Internal cable wiring" on page 128) as required by **EN ISO 14119, paragraph 5.4** for specific interlock applications and **EN ISO 13849-2 tables D3** (well-tried components) and **D.8** (failure exclusions) for safety applications in general. Actuate the switch **at least up to the positive opening travel** shown in the travel diagrams on page 220. 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 the instructions given on pages 211 to 222.**

⚠ **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_{th}):	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
MA terminals (crimped terminals) Pollution degree:	3
Utilization category:	AC15 / DC13 (with connector)
Operating voltage (U_e):	250 Vac (50 Hz) / 24 Vdc (with connector)
Operating current (I_e):	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 + A1:2009, 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

Utilization categories	R300 pilot duty (28 VA, 125-250 Vdc) B300 pilot duty (360 VA, 120-240 Vac) (1-2-3 cont.) C300 pilot duty (180 VA, 120-240 Vac) (4 cont.)

Housing features type 1, 4X "indoor use only", 12.
Housing features for the version with 1-2 contacts and type N cable Type 1, 4X "indoor use only"

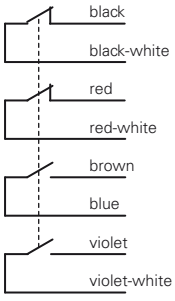
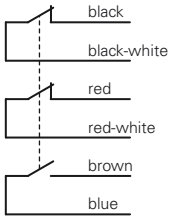
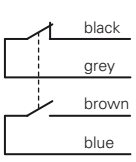
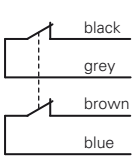
In compliance with standard: UL 508, CSA 22.2 No.14

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

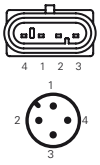
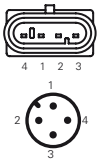
Ambient temperatures for switches with cable and electrical data

	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 features	Cable or connector type	N	G	H	N	N	H	M12 connector, 5-pole	M12 connector, 8-pole	AMP Superseal 1.5 connector
	Conductors	4x0.75 mm²	4x0.75 mm²	4x0.75 mm²	6x0.5 mm²	8x0.34 mm²	8x0.34 mm²	4x0.25 mm2	8x0.25mm2	
	Application field	General	General	General, mobile installation	General	General	General, mobile installation	General	General	General
	In compliance with standards	05VV-F	05VV-F	05EQ-H	03VV-F	03VV-F	03E7Q-H	03VV-H	03VV-H	/
	Sheath	PVC	PVC	PUR HALOGEN FREE	PVC	PVC	PUR HALOGEN FREE	PVC	PVC	/
	Self-extinguishing	IEC 60332-1-2 IEC 60332-1-3	IEC 60332-1-2 IEC 60332-1-3 IEC 60332-3 CEI 20-22 II	IEC60332-1-2 IEC60332-1-3	IEC 60332-1-2 IEC 60332-1-3	IEC 60332-1-2 IEC 60332-1-3	IEC60332-1-2 IEC60332-1-3	IEC60332-3 CEI 20-22 II	IEC60332-3 CEI 20-22 II	/
	Oil resistant	/	/	UL 758	/	/	UL 758	ISO 6722-1	ISO 6722-1	/
	Max. speed	/	/	300m/min	/	/	300m/min	50m/min	50m/min	/
	Max. acceleration	/	/	30m/s²	/	/	30m/s²	5m/s²	5m/s²	/
	Minimum bending radius	70 mm	70 mm	70 mm	108 mm	94mm	70 mm	75 mm	90 mm	/
	Outer diameter	7 mm	7 mm	7 mm	7 mm	7 mm	7 mm	5 mm	5 mm	/
	End stripped	80 mm	80 mm	80 mm	80 mm	80 mm	80 mm	/	/	/
	Copper conductors IEC 60228	Class 5	Class 5	Class 6	Class 5	Class 5	Class 6	Class 6	Class 6	/
Ambient temperature with cable standard	Cable, fixed installation	-25°C +70°C	-25°C +70°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 +70°C	+5°C +70°C	-25°C +80°C	-5°C +80°C	-5°C +80°C	-25°C +80°C	-25°C +80°C	-25°C +80°C	/
	Cable, mobile installation	/	/	-25°C +80°C	/	/	-25°C +80°C	-15°C +80°C	-15°C +80°C	/
Ambient temperature extended (T6)	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 Ith	10 A	10 A	10 A	6 A	3 A	3 A	4 A	2 A	10 A
	Rated insulation voltage Ui	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	2 A
	Utilization category DC13 125 V	0.4 A	0.4 A	0.4 A	0.4 A	0.4 A	0.4 A	0.4 A	/	0.4 A
	Utilization category DC13 250 V	0.3 A	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	3 A	3 A	3 A	4 A	2 A	4 A
	Utilization category AC15 120 V	4 A	4 A	4 A	3 A	3 A	3 A	4 A	/	4 A
	Utilization category AC15 250 V	4 A	4 A	4 A	3 A	3 A	3 A	4 A	/	4 A
	Approvals	CE cULus IMQ EAC CCC	CE EAC CCC	CE EAC	CE cULus IMQ EAC CCC	CE cULus IMQ EAC CCC	CE EAC	CE cULus IMQ EAC CCC	CE cULus EAC CCC	CE cULus EAC CCC

Internal cable wiring

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

Connector pin assignment

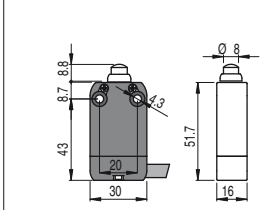
2NO+2NC	1NO+2NC	1NO+1NC	2NC
			
1-2 NC 3-4 NC 5-6 NO 7-8 NO	3-4 NC 5-6 NC 7-8 NO	1-2 NC 3-4 NO	1-2 NC 3-4 NC

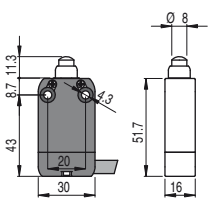
Female connectors see page 198

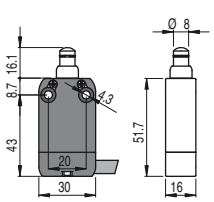
NF series modular pre-wired technopolymer switches

Contact type:
R = snap action
L = slow action

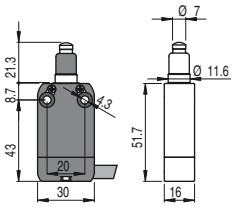
Contact block





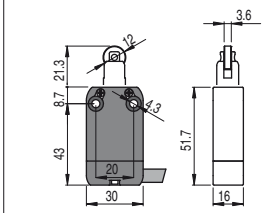


With external rubber gasket

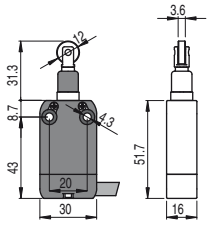


Contact block								
B11	R	NF B110AA-DN2	1NO+1NC	NF B110AB-DN2	1NO+1NC	NF B110AC-DN2	1NO+1NC	NF B110AE-DN2	1NO+1NC
B02	R	NF B020AA-DN2	2NC	NF B020AB-DN2	2NC	NF B020AC-DN2	2NC	NF B020AE-DN2	2NC
B12	R	NF B120AA-DN2	1NO+2NC	NF B120AB-DN2	1NO+2NC	NF B120AC-DN2	1NO+2NC	NF B120AE-DN2	1NO+2NC
B22	R	NF B220AA-DN2	2NO+2NC	NF B220AB-DN2	2NO+2NC	NF B220AC-DN2	2NO+2NC	NF B220AE-DN2	2NO+2NC
G11	L	NF G110AA-DN2	1NO+1NC	NF G110AB-DN2	1NO+1NC	NF G110AC-DN2	1NO+1NC	NF G110AE-DN2	1NO+1NC
G02	L	NF G020AA-DN2	2NC	NF G020AB-DN2	2NC	NF G020AC-DN2	2NC	NF G020AE-DN2	2NC
G12	L	NF G120AA-DN2	1NO+2NC	NF G120AB-DN2	1NO+2NC	NF G120AC-DN2	1NO+2NC	NF G120AE-DN2	1NO+2NC
G22	L	NF G220AA-DN2	2NO+2NC	NF G220AB-DN2	2NO+2NC	NF G220AC-DN2	2NO+2NC	NF G220AE-DN2	2NO+2NC
Max. speed		page 219 - type 4		page 219 - type 4		page 219 - type 4		page 219 - type 4	
Actuating force		7 N (25 N →)		7 N (25 N →)		7 N (25 N →)		7 N (25 N →)	
Travel diagrams		page 220 - group 1		page 220 - group 1		page 220 - group 1		page 220 - group 1	

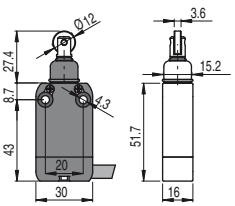
Contact block



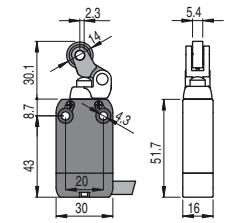
With external rubber gasket



With external rubber gasket

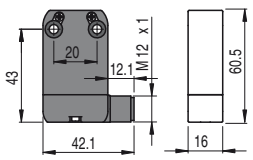


With stainless steel roller on request



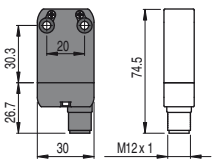
Contact block									
B11	R	NF B110BB-DN2	1NO+1NC	NF B110BE-DN2	1NO+1NC	NF B110BG-DN2	1NO+1NC	NF B110CB-DN2	1NO+1NC
B02	R	NF B020BB-DN2	2NC	NF B020BE-DN2	2NC	NF B020BG-DN2	2NC	NF B020CB-DN2	2NC
B12	R	NF B120BB-DN2	1NO+2NC	NF B120BE-DN2	1NO+2NC	NF B120BG-DN2	1NO+2NC	NF B120CB-DN2	1NO+2NC
B22	R	NF B220BB-DN2	2NO+2NC	NF B220BE-DN2	2NO+2NC	NF B220BG-DN2	2NO+2NC	NF B220CB-DN2	2NO+2NC
G11	L	NF G110BB-DN2	1NO+1NC	NF G110BE-DN2	1NO+1NC	NF G110BG-DN2	1NO+1NC	NF G110CB-DN2	1NO+1NC
G02	L	NF G020BB-DN2	2NC	NF G020BE-DN2	2NC	NF G020BG-DN2	2NC	NF G020CB-DN2	2NC
G12	L	NF G120BB-DN2	1NO+2NC	NF G120BE-DN2	1NO+2NC	NF G120BG-DN2	1NO+2NC	NF G120CB-DN2	1NO+2NC
G22	L	NF G220BB-DN2	2NO+2NC	NF G220BE-DN2	2NO+2NC	NF G220BG-DN2	2NO+2NC	NF G220CB-DN2	2NO+2NC
Max. speed		page 219 - type 2		page 219 - type 5		page 219 - type 5		page 219 - type 3	
Actuating force		7 N (25 N →)		7 N (25 N →)		7 N (25 N →)		5 N (25 N →)	
Travel diagrams		page 220 - group 1		page 220 - group 1		page 220 - group 1		page 220 - group 2	

M12 connector, right



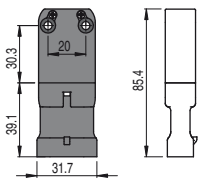
To order a product with M12 right connector, replace DN2 with DMK in the codes shown above.
Example:
NF B110AA-**DN2** → NF B110AA-**DMK**

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

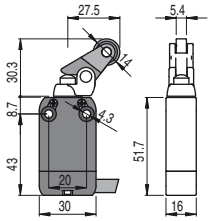
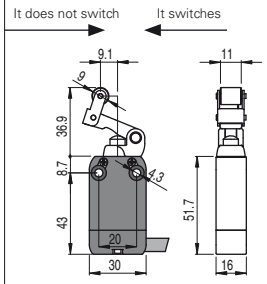
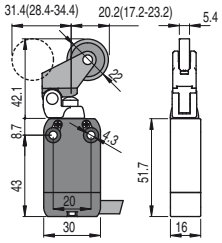
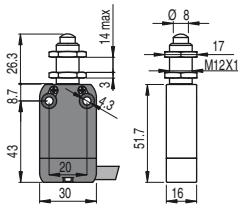
Items with code on **green** background are stock items

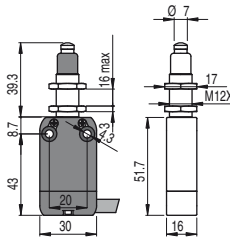
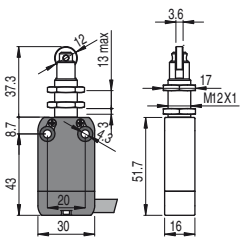
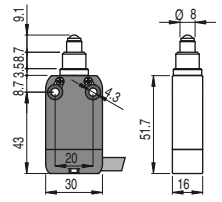
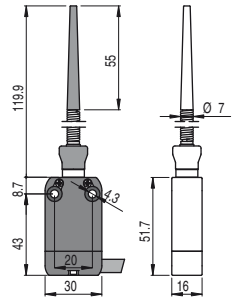
Accessories See page 197

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

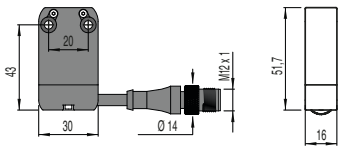
Contact type:

R = snap action
L = slow action

Contact block		With stainless steel roller on request	Unidirectional operation		Secured only by means of threaded head
					
B11	R	NF B110CH-DN2 → 1NO+1NC	NF B110CP-DN2 → 1NO+1NC	NF B110CV-DN2 → 1NO+1NC	NF B110EB-DN2 → 1NO+1NC
B02	R	NF B020CH-DN2 → 2NC	NF B020CP-DN2 → 2NC	NF B020CV-DN2 → 2NC	NF B020EB-DN2 → 2NC
B12	R	NF B120CH-DN2 → 1NO+2NC	NF B120CP-DN2 → 1NO+2NC	NF B120CV-DN2 → 1NO+2NC	NF B120EB-DN2 → 1NO+2NC
B22	R	NF B220CH-DN2 → 2NO+2NC	NF B220CP-DN2 → 2NO+2NC	NF B220CV-DN2 → 2NO+2NC	NF B220EB-DN2 → 2NO+2NC
G11	L	NF G110CH-DN2 → 1NO+1NC	NF G110CP-DN2 → 1NO+1NC	NF G110CV-DN2 → 1NO+1NC	NF G110EB-DN2 → 1NO+1NC
G02	L	NF G020CH-DN2 → 2NC	NF G020CP-DN2 → 2NC	NF G020CV-DN2 → 2NC	NF G020EB-DN2 → 2NC
G12	L	NF G120CH-DN2 → 1NO+2NC	NF G120CP-DN2 → 1NO+2NC	NF G120CV-DN2 → 1NO+2NC	NF G120EB-DN2 → 1NO+2NC
G22	L	NF G220CH-DN2 → 2NO+2NC	NF G220CP-DN2 → 2NO+2NC	NF G220CV-DN2 → 2NO+2NC	NF G220EB-DN2 → 2NO+2NC
Max. speed		page 219 - type 3	page 219 - type 3	page 219 - type 3	page 219 - type 4
Actuating force		5 N (25 N →)	3 N (25 N →)	3 N (25 N →)	7 N (25 N →)
Travel diagrams		page 220 - group 2	page 220 - group 6	page 220 - group 3	page 220 - group 1

Contact block		Secured only by means of threaded head With external rubber gasket	Secured only by means of threaded head	Plunger with Ø 6 mm ball	With external rubber gasket
					
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 219 - type 4	page 219 - type 2	page 219 - type 2	1 m/s
Actuating force		7 N (25 N →)	7 N (25 N →)	7 N (25 N →)	0.03 Nm
Travel diagrams		page 220 - group 1	page 220 - group 1	page 220 - group 1	page 220 - group 4

Cable and M12 connector



All values in the drawings are in mm

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**

NF series modular pre-wired technopolymer switches

Contact type:
R = snap action
L = slow action

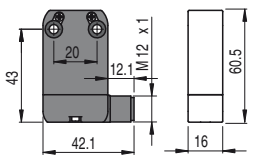
Contact block

		With external rubber gasket		With external rubber gasket		With stainless steel roller on request		With stainless steel roller on request	
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 219 - type 1		page 219 - 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 220 - group 4		page 220 - group 4		page 220 - group 5		page 220 - group 5	

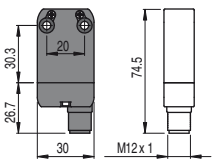
Contact block

		With stainless steel roller on request		With stainless steel roller on request		With stainless steel roller on request		With stainless steel roller on request	
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 219 - type 1		page 219 - type 1		page 219 - type 1		page 219 - 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 220 - group 5		page 220 - group 5		page 220 - group 5		page 220 - group 5	

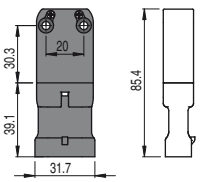
M12 connector, right



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**

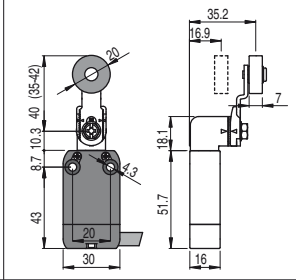
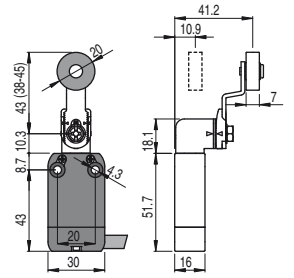
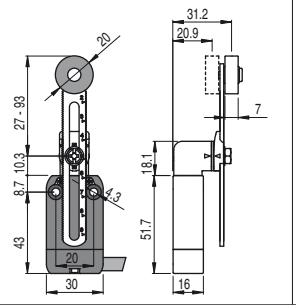
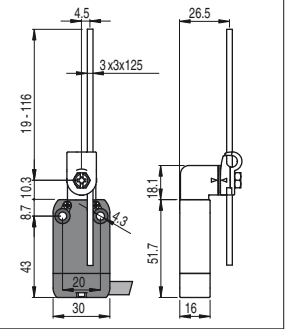
To order a product with M12 bottom connector, replace DN2 with SMK in the codes shown above.
Example:
NF B110AA-**DN2** → NF B110AA-**SMK**

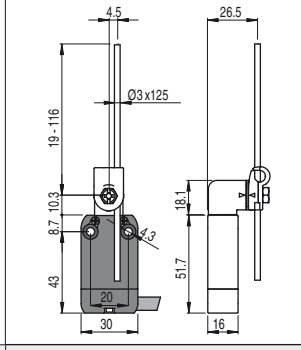
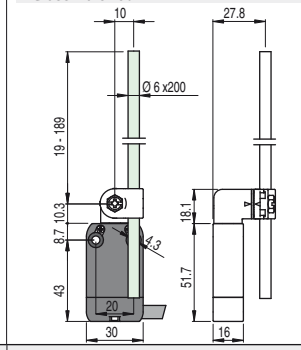
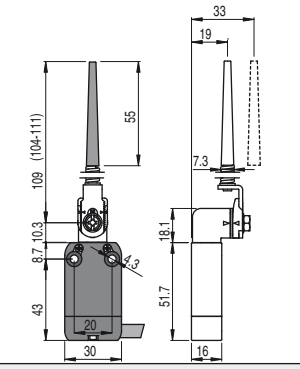
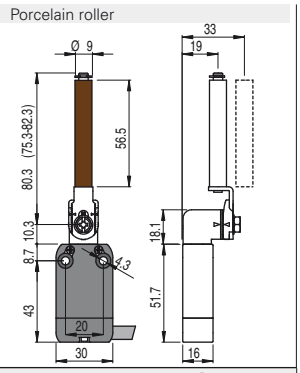
To order a product with AMP connector, replace DN2 with SAK in the codes shown above.
Example:
NF B110AA-**DN2** → NF B110AA-**SAK**

All values in the drawings are in mm

Contact type:

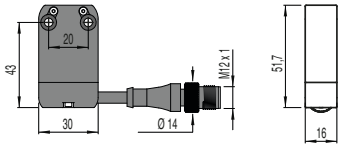
R = snap action
L = slow action

Contact block		With stainless steel roller on request	With stainless steel roller on request	With stainless steel roller on request	Square rod, 3x3 mm, stainless steel
					
B11	R	NF B112KG-DN2 1NO+1NC	NF B112KH-DN2 1NO+1NC	NF B112KP-DN2 1NO+1NC	NF B112LB-DN2 1NO+1NC
B02	R	NF B022KG-DN2 2NC	NF B022KH-DN2 2NC	NF B022KP-DN2 2NC	NF B022LB-DN2 2NC
B12	R	NF B122KG-DN2 1NO+2NC	NF B122KH-DN2 1NO+2NC	NF B122KP-DN2 1NO+2NC	NF B122LB-DN2 1NO+2NC
B22	R	NF B222KG-DN2 2NO+2NC	NF B222KH-DN2 2NO+2NC	NF B222KP-DN2 2NO+2NC	NF B222LB-DN2 2NO+2NC
G11	L	NF G112KG-DN2 1NO+1NC	NF G112KH-DN2 1NO+1NC	NF G112KP-DN2 1NO+1NC	NF G112LB-DN2 1NO+1NC
G02	L	NF G022KG-DN2 2NC	NF G022KH-DN2 2NC	NF G022KP-DN2 2NC	NF G022LB-DN2 2NC
G12	L	NF G122KG-DN2 1NO+2NC	NF G122KH-DN2 1NO+2NC	NF G122KP-DN2 1NO+2NC	NF G122LB-DN2 1NO+2NC
G22	L	NF G222KG-DN2 2NO+2NC	NF G222KH-DN2 2NO+2NC	NF G222KP-DN2 2NO+2NC	NF G222LB-DN2 2NO+2NC
Max. speed		page 219 - type 1	page 219 - type 1	page 219 - type 1	1.5 m/s
Actuating force		0.07 Nm (0.25 Nm)	0.07 Nm (0.25 Nm)	0.07 Nm (0.25 Nm)	0.07 Nm
Travel diagrams		page 220 - group 5	page 220 - group 5	page 220 - group 5	page 220 - group 5

Contact block		Round rod, Ø 3 mm, stainless steel	Glass fibre rod		Porcelain roller
					
B11	R	NF B112LE-DN2 1NO+1NC	NF B112LH-DN2 1NO+1NC	NF B112LL-DN2 1NO+1NC	NF B112LP-DN2E24 1NO+1NC
B02	R	NF B022LE-DN2 2NC	NF B022LH-DN2 2NC	NF B022LL-DN2 2NC	NF B022LP-DN2E24 2NC
B12	R	NF B122LE-DN2 1NO+2NC	NF B122LH-DN2 1NO+2NC	NF B122LL-DN2 1NO+2NC	NF B122LP-DN2E24 1NO+2NC
B22	R	NF B222LE-DN2 2NO+2NC	NF B222LH-DN2 2NO+2NC	NF B222LL-DN2 2NO+2NC	NF B222LP-DN2E24 2NO+2NC
G11	L	NF G112LE-DN2 1NO+1NC	NF G112LH-DN2 1NO+1NC	NF G112LL-DN2 1NO+1NC	NF G112LP-DN2E24 1NO+1NC
G02	L	NF G022LE-DN2 2NC	NF G022LH-DN2 2NC	NF G022LL-DN2 2NC	NF G022LP-DN2E24 2NC
G12	L	NF G122LE-DN2 1NO+2NC	NF G122LH-DN2 1NO+2NC	NF G122LL-DN2 1NO+2NC	NF G122LP-DN2E24 1NO+2NC
G22	L	NF G222LE-DN2 2NO+2NC	NF G222LH-DN2 2NO+2NC	NF G222LL-DN2 2NO+2NC	NF G222LP-DN2E24 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 220 - group 5	page 220 - group 5	page 220 - group 5	page 220 - group 5

Cable and M12 connector

All values in the drawings are in mm

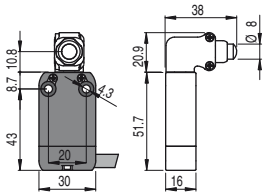


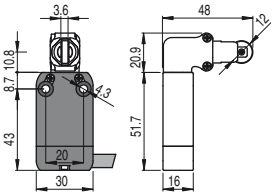
To order a product with cable and M12 connector:
replace DN2 with DM0.2 in the codes shown above.
Example:
NF B110AA-**DN2** → NF B110AA-**DM0.2**

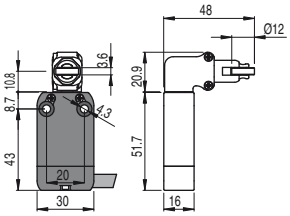
Contact type:

R = snap action
L = slow action

Contact block

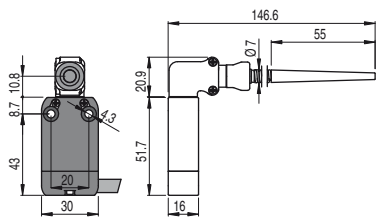




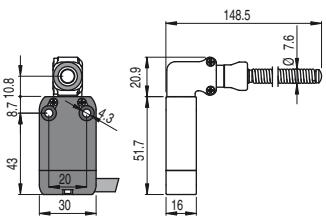


B11	R	NF B110AB-DN2W5 → 1NO+1NC	NF B110BB-DN2H0W5 → 1NO+1NC	NF B110BB-DN2W5 → 1NO+1NC
B02	R	NF B020AB-DN2W5 → 2NC	NF B020BB-DN2H0W5 → 2NC	NF B020BB-DN2W5 → 2NC
B12	R	NF B120AB-DN2W5 → 1NO+2NC	NF B120BB-DN2H0W5 → 1NO+2NC	NF B120BB-DN2W5 → 1NO+2NC
B22	R	NF B220AB-DN2W5 → 2NO+2NC	NF B220BB-DN2H0W5 → 2NO+2NC	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 219 - type 4	page 219 - type 2	page 219 - type 2
Actuating force		9.5 N (25 N →)	9.5 N (25 N →)	9.5 N (25 N →)
Travel diagrams		page 220 - group 1	page 220 - group 1	page 220 - group 1

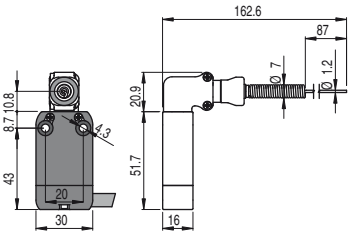
With external gasket



With external gasket



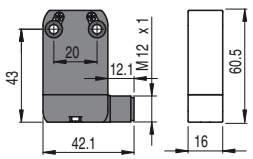
With external gasket



Contact block

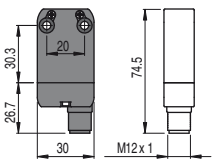
B11	R	NF B110HB-DN2W5 1NO+1NC	NF B110HE-DN2W5 1NO+1NC	NF B110HH-DN2W5 1NO+1NC
B02	R	NF B020HB-DN2W5 2NC	NF B020HE-DN2W5 2NC	NF B020HH-DN2W5 2NC
B12	R	NF B120HB-DN2W5 1NO+2NC	NF B120HE-DN2W5 1NO+2NC	NF B120HH-DN2W5 1NO+2NC
B22	R	NF B220HB-DN2W5 2NO+2NC	NF B220HE-DN2W5 2NO+2NC	NF B220HH-DN2W5 2NO+2NC
G11	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 220 - group 4	page 220 - group 4	page 220 - group 4

M12 connector, right



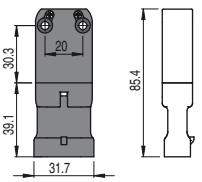
To order a product with M12 right connector, replace DN2 with DMK in the codes shown above. Example:
NF B110AA-**DN2** → NF B110AA-**DMK**

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



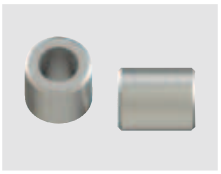
To order a product with AMP connector, replace DN2 with SAK in the codes shown above. Example:
NF B110AA-**DN2** → NF B110AA-**SAK**

All values in the drawings are in mm

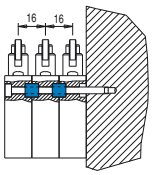
Accessories

Packs of **10 pcs.**

Article	Description
VN DT1F	Spacer for NA and NF series
VF D16B	Spacer for NB series



By installing spacers between two switches, it is possible to have 2 or more pre-wired switches, preventing them from slipping.



M12 female connectors with cable

For details see page 198

Technical data:

- Polyurethane connector body
- Class 6 copper conductors acc. to IEC 60228 - mobile installation
- Gold-plated contacts (resistance < 5 mΩ)
- Self-locking ring nut
- High flexibility cable with PVC sheath suitable to be used in drag chains, acc. to IEC 60332-3 and CEI 20-22II. With polyurethane sheath on request

Code structure

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

VF CA4PD3M

No. of poles	
4	4 poles
5	5 poles
8	8 poles
12	12 poles

Cable sheath	
P	PVC (standard)
U	PUR

Connector type	
D	straight (standard)
G	angled

Connection type	
M	M12x1

	No. of poles			
Cable length (L)	4	5	8	12
1 1 metre				
2 2 metres				
3 3 metres (standard)	•	•		
4 4 metres				
5 5 metres (standard)	•	•	•	•
...				
0 10 metres (standard)	•	•	•	•

Other lengths on request

Stock items

VF CA4PD3M
VF CA4PD5M
VF CA4PD0M
VF CA5PD3M
VF CA5PD5M
VF CA5PD0M
VF CA8PD5M
VF CA8PD0M
VF CA12PD5M
VF CA12PD0M

Attention! No stock items, minimum order quantity 100 pcs.

Field wireable M12 female connectors

General data

Technopolymer connector body
Gold-plated contacts
Screw terminals for cable screw fittings

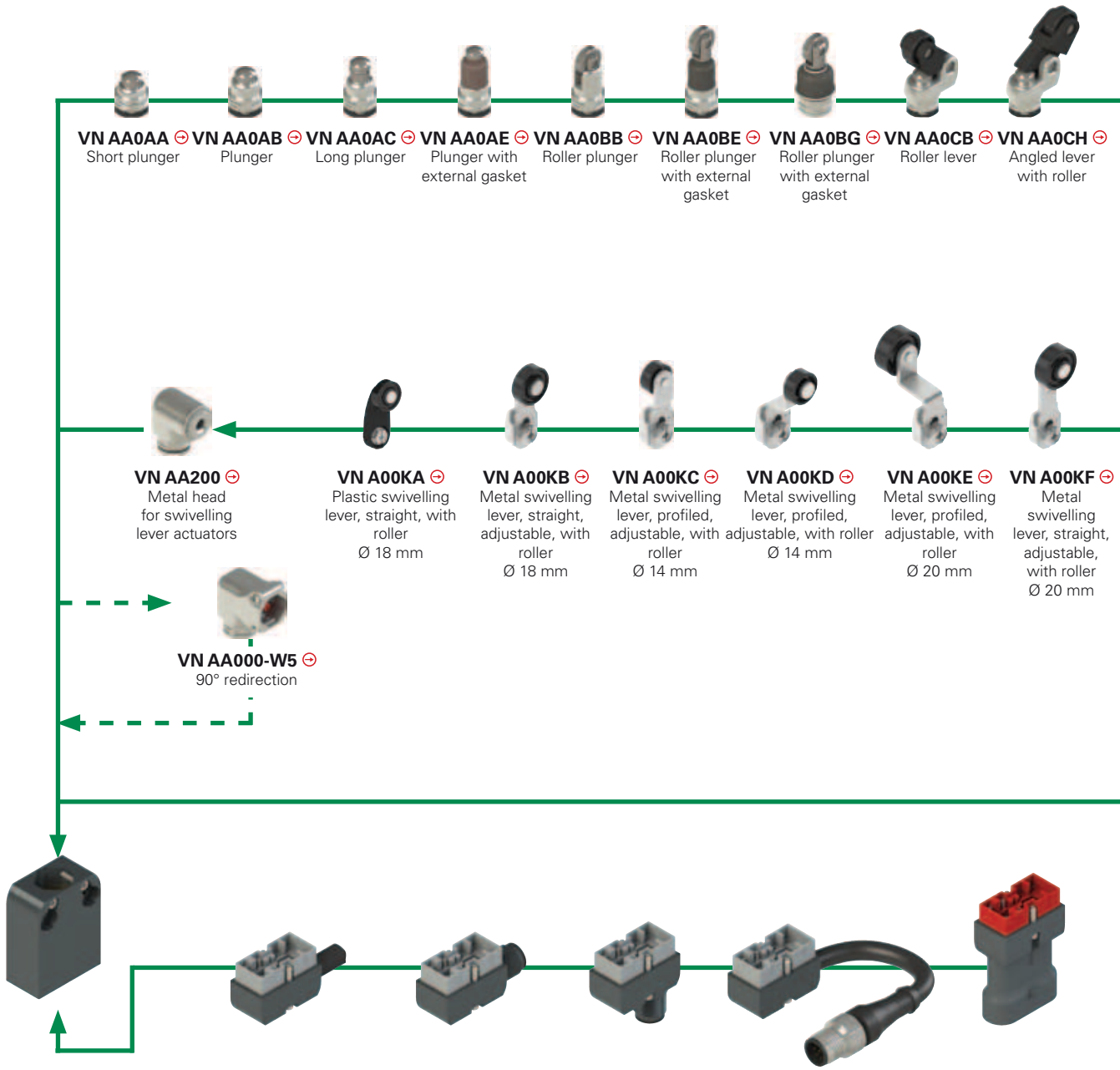
Max. operating voltages	250 Vac/dc (4 and 5-pole) 30 Vac/dc (8-pole)
Maximum current	4 A
Protection degree	IP67 acc. to EN 60529
Ambient temperature	-25°C … +85°C
Wire cross-section	0.25 mm² (24 AWG) … 0.5 mm² (20 AWG)

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

Items with code on **green** background are stock items

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

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



VN AA0AA Short plunger
VN AA0AB Plunger
VN AA0AC Long plunger
VN AA0AE Plunger with external gasket
VN AA0BB Roller plunger
VN AA0BE Roller plunger with external gasket
VN AA0BG Roller plunger with external gasket
VN AA0CB Roller lever
VN AA0CH Angled lever with roller

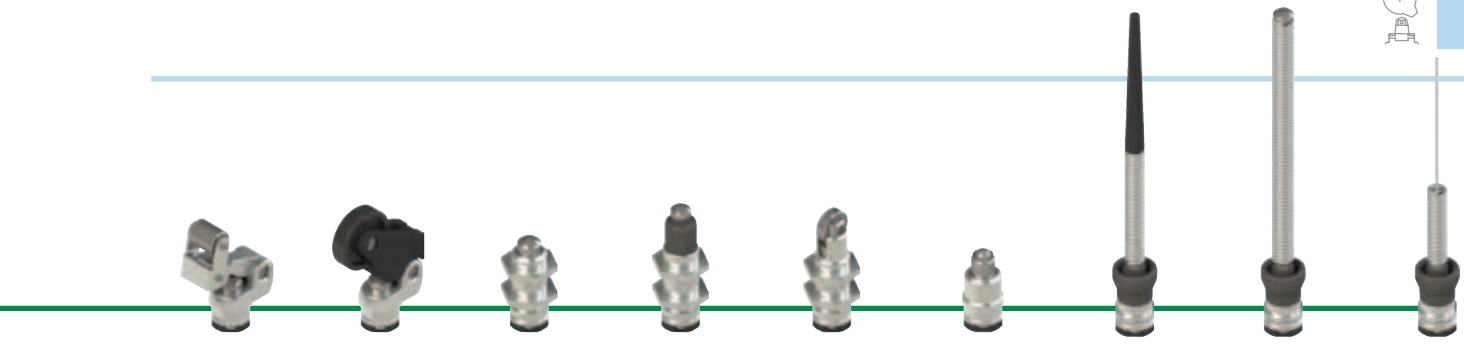
VN AA200 Metal head for swivelling lever actuators
VN A00KA Plastic swivelling lever, straight, with roller Ø 18 mm
VN A00KB Metal swivelling lever, straight, adjustable, with roller Ø 18 mm
VN A00KC Metal swivelling lever, profiled, adjustable, with roller Ø 14 mm
VN A00KD Metal swivelling lever, profiled, adjustable, with roller Ø 14 mm
VN A00KE Metal swivelling lever, profiled, adjustable, with roller Ø 20 mm
VN A00KF Metal swivelling lever, straight, adjustable, with roller Ø 20 mm

VN AA000-W5 90° redirection

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**	**VN CM11DMK**	**VN CM11SMK**	**VN CM11DM0.2**	**0,2**	**VN CM11SAK**
NA G11000	1NO+1NC L							
NA L11000	1NO+1NC LA	**VN CM11DN5**	**5**					
NA H11000	1NO+1NC LO							
NA B02000	2NC R	**VN CM02DN2**	**2**	**VN CM02DMK**	**VN CM02SMK**	**VN CM02DM0.2**	**0,2**	**VN CM02SAK**
NA G02000	2NC L	**VN CM02DN5**	**5**					
NA B20000	2NO R	/		**VN CM20DMK**	**VN CM20SMK**	**VN CM20DM0.2**	**0,2**	**VN CM20SAK**
NA G20000	2NO L	/						
NA B12000	1NO+2NC R	**VN CM12DN2**	**2**	**VN CM12DMK**	**VN CM12SMK**	**VN CM12DM0.2**	**0,2**	
NA G12000	1NO+2NC L							
NA L12000	1NO+2NC LA	**VN CM12DN5**	**5**					
NA H12000	1NO+2NC LO							
NA B22000	2NO+2NC R	**VN CM22DN2**	**2**	**VN CM22DMK**	**VN CM22SMK**	**VN CM22DM0.2**	**0,2**	
NA G22000	2NO+2NC L							
NA L22000	2NO+2NC LA	**VN CM22DN5**	**5**					
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**



VN AA0CP Unidirectional roller lever

VN AA0CV Adjustable angled roller lever

VN AA0EB Plunger with M12 threaded fitting

VN AA0EE Plunger with M12 threaded fitting, external gasket

VN AA0FB Roller plunger with M12 threaded fitting

VN AA0GB Plunger with Ø 6 mm ball

VN AA0HB Flexible rod with plastic tip

VN AA0HE Flexible rod

VN AA0HH Flexible rod with needle

VN A00KG Metal swivelling lever, profiled, adjustable, with roller Ø 20 mm

VN A00KH Metal swivelling lever, profiled, adjustable, with roller Ø 20 mm

VN A00KP Metal swivelling lever, straight, with extended adjustment and roller Ø 20 mm

VN A00LB Metal swivelling lever with stainless steel rod 3 x 3 x 125, adjustable

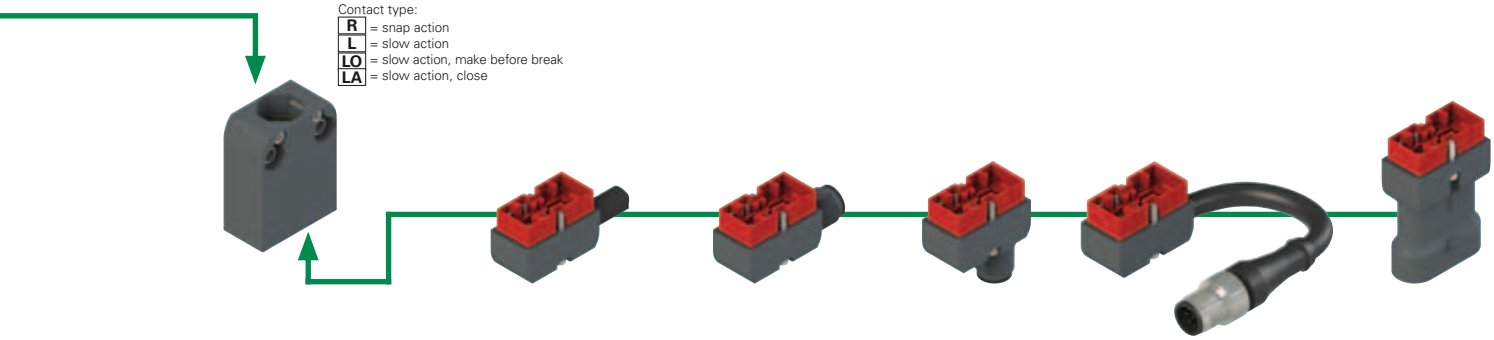
VN A00LE Metal swivelling lever with stainless steel rod Ø 3 x 125, adjustable

VN A00LH Metal swivelling lever with glass fibre rod Ø 6 x 200, adjustable

VN A00LL Metal swivelling lever with flexible rod, adjustable

VN A00LP Metal swivelling lever with porcelain roll, adjustable

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



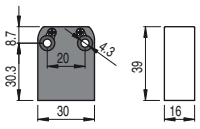
NF TECHNOPOLYMER housing, 20 mm hole spacing		Technopolymer connector with cable	Cable length (m)	M12 technopolymer connector, right	M12 technopolymer connector, bottom	Technopolymer connector with cable and M12 connector	Cable length (m)	AMP technopolymer connector, bottom
NF B11000	1NO+1NC R	VN CP11DN2	2	VN CP11DMK	VN CP11SMK	VN CP11DM0.2	0,2	VN CP11SAK
NF G11000	1NO+1NC L	VN CP11DN5	5					
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 CP22DMK	VN CP22SMK	VN CP22DM0.2	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					
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

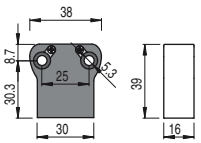
Housings

All values in the drawings are in mm

NA metal housings



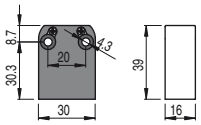
NB metal housings



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

Quality marks:

NF technopolymer housings



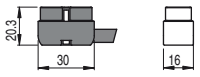
NA metal housings		NB metal housings		NF technopolymer housings	
NA B11000	1NO+1NC R	NB B11000	1NO+1NC R	NF B11000	1NO+1NC R
NA G11000	1NO+1NC L	NB G11000	1NO+1NC L	NF G11000	1NO+1NC L
NA L11000	1NO+1NC LA	NB L11000	1NO+1NC LA	NF L11000	1NO+1NC LA
NA H11000	1NO+1NC LO	NB H11000	1NO+1NC LO	NF H11000	1NO+1NC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

Connectors with cable

All values in the drawings are in mm

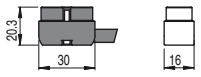
Other cable lengths on request

metal connectors for NA and NB housings



		Cable length (m)	Cable type N = PVC H = PUR HALOGEN FREE
VN CM11DN2	1NO+1NC	2	N
VN CM11DN5	1NO+1NC	5	
VN CM12DN2	1NO+2NC	2	
VN CM12DN5	1NO+2NC	5	
VN CM22DN2	2NO+2NC	2	
VN CM22DN5	2NO+2NC	5	
VN CM11DH2	1NO+1NC	2	H
VN CM11DH5	1NO+1NC	5	
VN CM12DH2	1NO+2NC	2	
VN CM12DH5	1NO+2NC	5	

technopolymer connectors for NF housings



		Cable length (m)	Cable type N = PVC H = PUR HALOGEN FREE
VN CP11DN2	1NO+1NC	2	N
VN CP11DN5	1NO+1NC	5	
VN CP12DN2	1NO+2NC	2	
VN CP12DN5	1NO+2NC	5	
VN CP22DN2	2NO+2NC	2	
VN CP22DN5	2NO+2NC	5	
VN CP11DH2	1NO+1NC	2	H
VN CP11DH5	1NO+1NC	5	
VN CP22DH2	2NO+2NC	2	
VN CP22DH5	2NO+2NC	5	

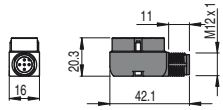
M12 or AMP connectors

All values in the drawings are in mm

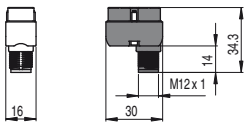
Important: **Always check that the applied electric load is within the voltage and current limits defined for the connectors. See tables on page 118 and 128.**

metal connectors for NA and NB housings

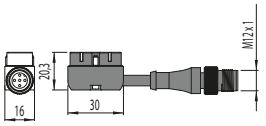
M12 connector, right



M12 connector, bottom



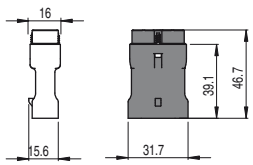
with cable and M12 connector



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 NA and NB housings

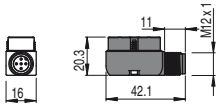
AMP superseal 1.5



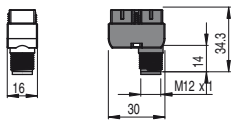
VN CM11SAK	1NO+1NC		
VN CM02SAK	2NC		
VN CM20SAK	2NO		

technopolymer connectors for NF housings

M12 connector, right

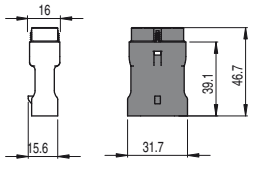


M12 connector, bottom

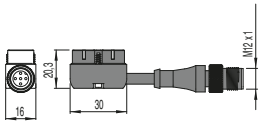


VN CP11DMK	1NO+1NC	VN CP11SMK	1NO+1NC
VN CP02DMK	2NC	VN CP02SMK	2NC
VN CP22DMK	2NO+2NC	VN CP22SMK	2NO+2NC

AMP superseal 1.5



with cable and M12 connector



VN CP11SAK	1NO+1NC	VN CP11DM0.2	1NO+1NC
VN CP02SAK	2NC	VN CP02DM0.2	2NC
VN CP20SAK	2NO	VN CP22DM0.2	2NO+2NC

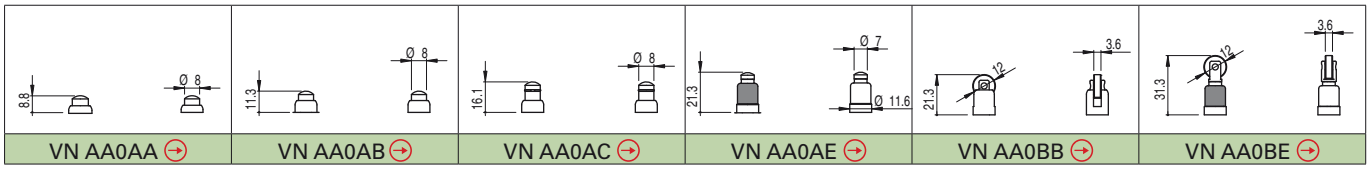
Items with code on **green** background are stock items

Accessories See page 197

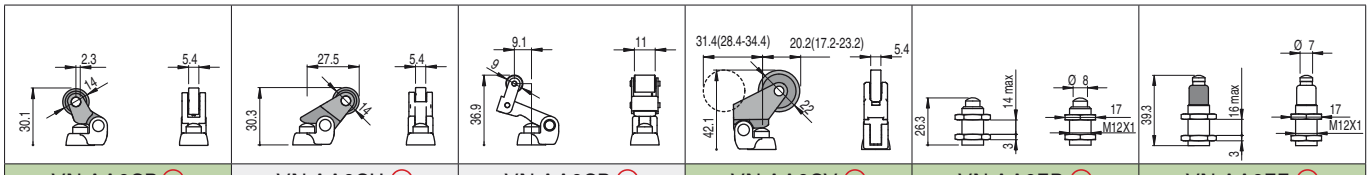
→ The 2D and 3D files are available at **www.pizzato.com**

Actuators

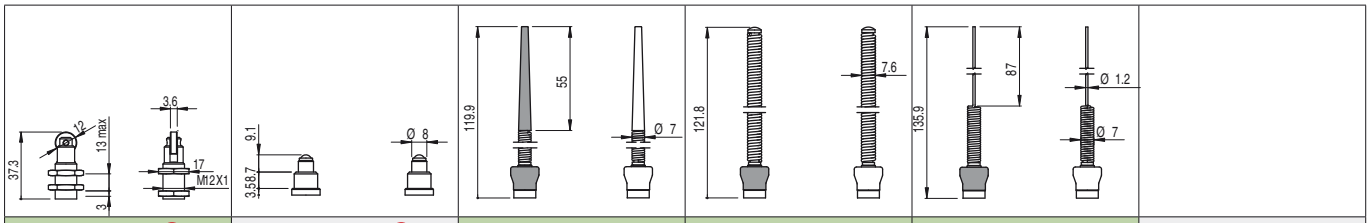
All values in the drawings are in mm



VN AA0AA | VN AA0AB | VN AA0AC | VN AA0AE | VN AA0BB | VN AA0BE



VN AA0CB | VN AA0CH | VN AA0CP | VN AA0CV | VN AA0EB | VN AA0EE

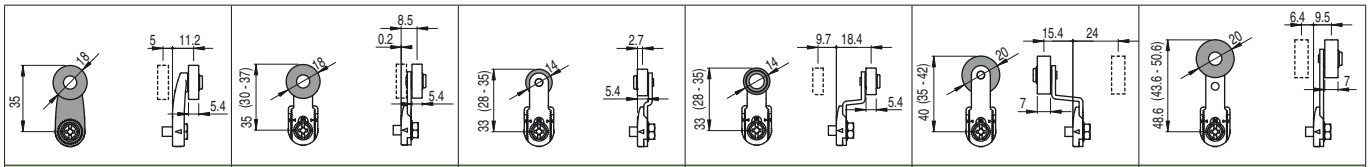


VN AA0FB | VN AA0GB | VN AA0HB | VN AA0HE | VN AA0HH

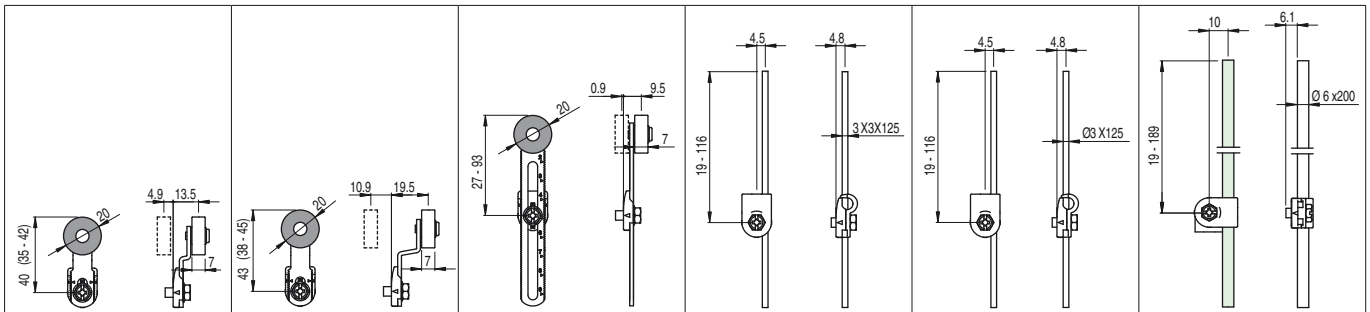
Levers

All values in the drawings are in mm

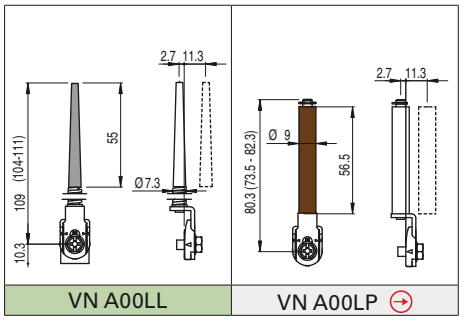
ATTENTION: These separate actuators can be used only with items of the NA, NB and NF series.



VN A00KA | VN A00KB | VN A00KC | VN A00KD | VN A00KE | VN A00KF

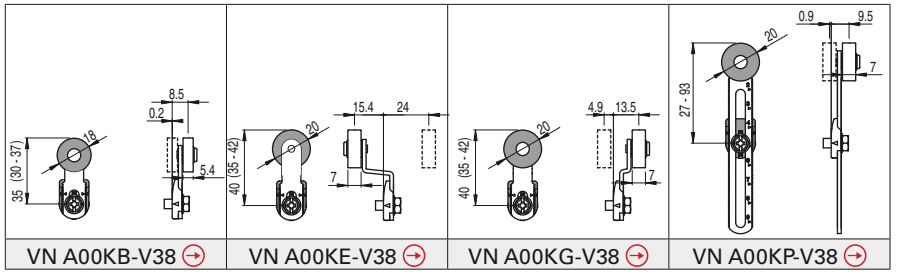


VN A00KG | VN A00KH | VN A00KP | VN A00LB | VN A00LE | VN A00LH



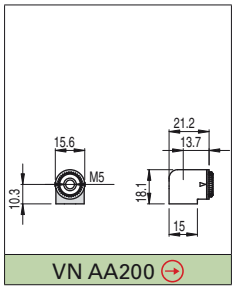
VN A00LL | VN A00LP

Levers with external metallic parts in stainless steel



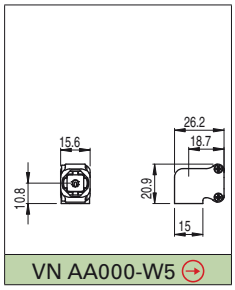
VN A00KB-V38 | VN A00KE-V38 | VN A00KG-V38 | VN A00KP-V38

Heads



VN AA200

90° redirection



VN AA000-W5

Items with code on **green** background are stock items

Accessories See page 197

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