Selection diagram for item combinations of the NF series

ACTUATORS

0AA Short plunger

0AB Plunger

0AC Long plunger

0AE Plunger and external gasket

0BB Roller plunger

0BE Roller plunger and external gasket

0BG Roller plunger and external gasket

0CB Roller lever

0CH Angled lever with roller

0AB-W5 Plunger

0BB-H0W5 Roller plunger

0BB-W5 Roller plunger

0HB-W5 Spring rod with plastic tip

0HE-W5 Spring rod

0HH-W5 Spring rod with wire tip

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 Ø 20 mm roller



NF

CONTACT BLOCKS



Snap action

B11	1NO + 1NC
B02	2NC
B12	1NO + 2NC
B22	2NO + 2NC
BA1	1NO + 1NC change-over

Slow action

G11	1NO + 1NC
G02	2NC
G12	1NO + 2NC
G22	2NO + 2NC

Slow action, make before break

H11	1NO + 1NC
H12	1NO + 2NC
H22	2NO + 2NC

Slow action, close

L11	1NO + 1NC
L12	1NO + 2NC
L22	2NO + 2NC

Snap action, "V" design contacts

C11	1NO + 1NC
C02	2NC
C12	1NO + 2NC
C22	2NO + 2NC

CONNECTIONS



DMK M12 connector, right

SMK M12 connector, bottom

DM0.2 cable and M12 connector

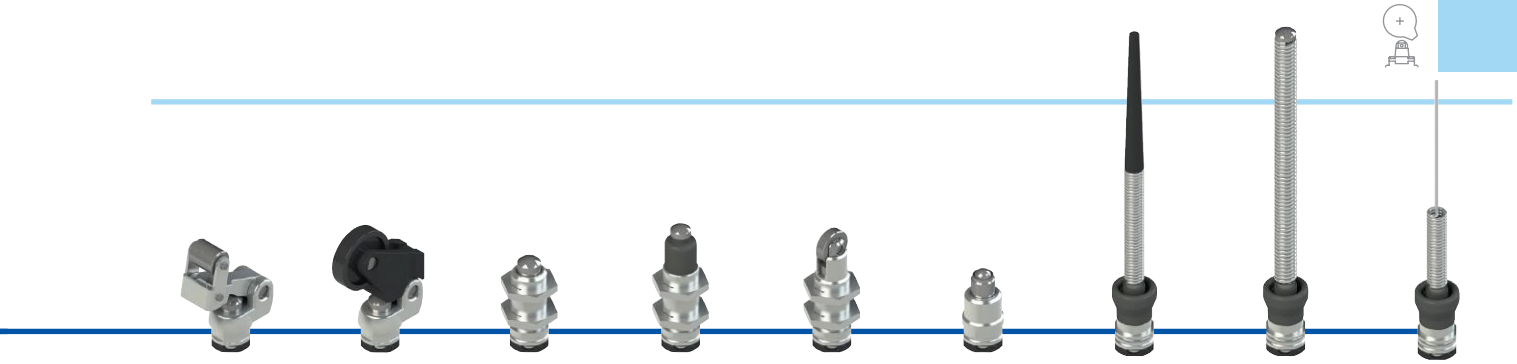
SAK AMP connector, bottom

connector with cable

DN	PVC cable IEC 60332-1, oil-resistant (standard)
DE	PVC cable IEC 60332-1 (with 2 contacts only)
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 and external gasket

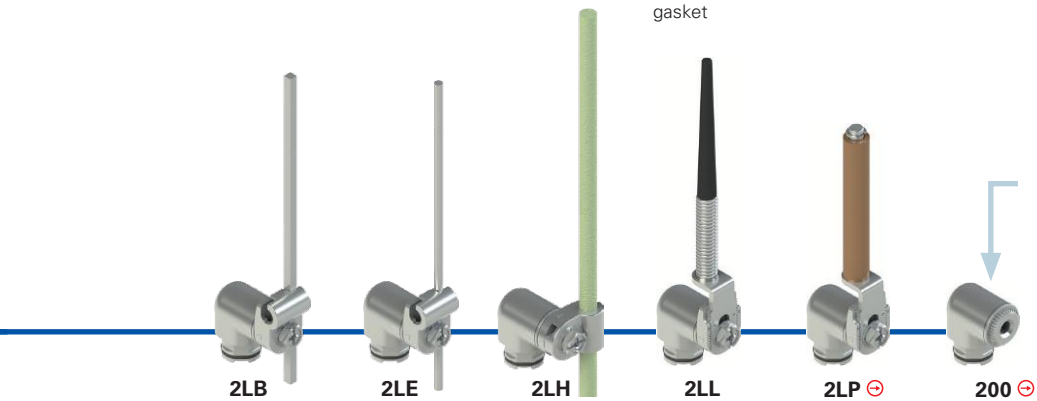
0FB Roller plunger with M12 threaded fitting

0GB Plunger with Ø 6 mm ball

0HB External gasket, spring rod with plastic tip

0HE External gasket, spring rod

0HH External gasket, spring rod with wire tip



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

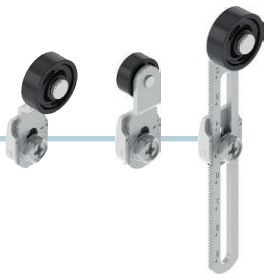
2LH Metal swivelling lever with glass fibre rod Ø 6 x 200 mm, adjustable

2LL Metal swivelling lever with spring rod, adjustable

2LP Metal swivelling lever with porcelain roll, adjustable

200 Metal head for swivelling lever actuators

SEPARATE ACTUATORS
See page 123



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)
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

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

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
- 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 ⧈.
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 ⊕ 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-tried 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_{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 / IP69K
Terminals:	integrated or connector plug
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, 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)

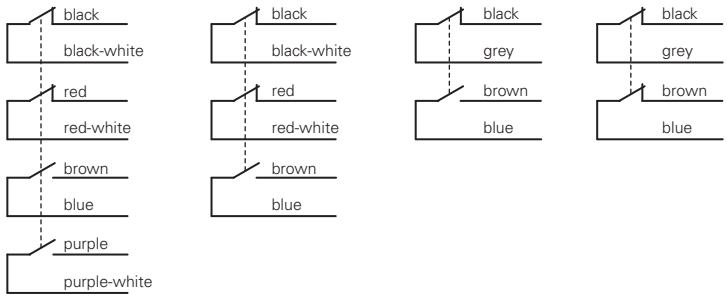
Screws torque of the detachable connector housing nominal is 0.2 ÷ 0.3 Nm.

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

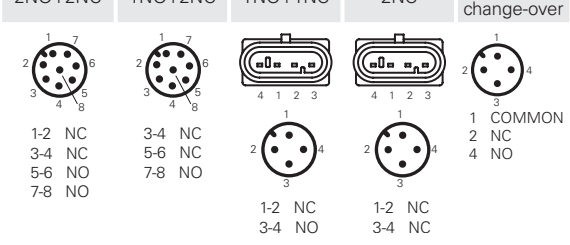
Ambient temperatures for switches with cable and electrical data

	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 mm²	4x0.75 mm²	4x0.75 mm²	6x0.5 mm²	8x0.34 mm²	8x0.34 mm²	4x0.34 mm²	8x0.25mm²	
	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/s²	/	/	30 m/s²	5 m/s²	5 m/s²	/
	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	/	/	/
	Copper conductors IEC 60228	Class 5	Class 5	Class 6	Class 5	Class 5	Class 6	Class 6	Class 6	/
	Engraving	Standard	6266	6279	6272	6276	6283	6263	6275	/
Ambient temperature with cable 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	/
Ambient temperature with cable 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	4 A	3 A	3 A	4 A	2 A	4 A
	Utilization category AC15 — 120 V	4 A	4 A	4 A	4 A	3 A	3 A	4 A	/	4 A
	Utilization category AC15 — 250 V	4 A	4 A	4 A	4 A	3 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



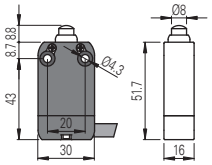
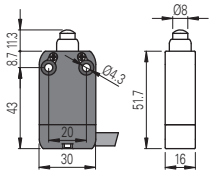
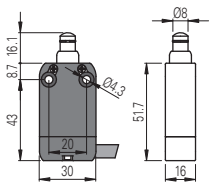
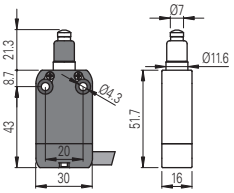
Connector pin assignment



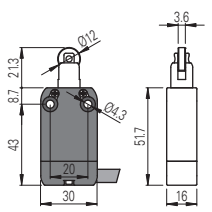
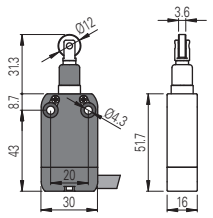
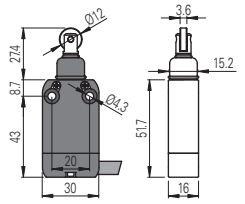
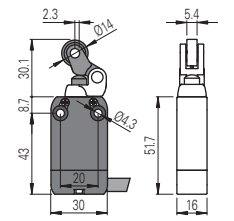
Female connectors See page 200

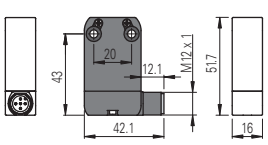
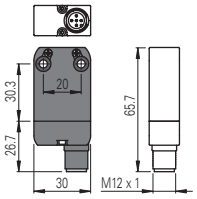
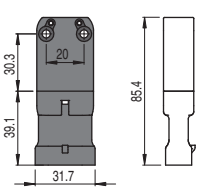
NF series modular pre-wired technopolymer switches

Contact type
R = snap action
L = slow action

Contact block								
							External gasket	
								
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 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	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 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	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**

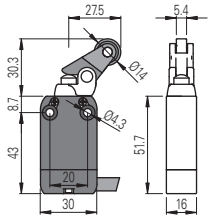
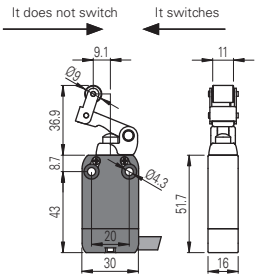
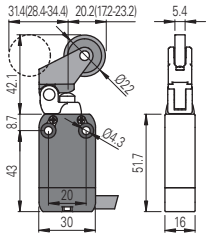
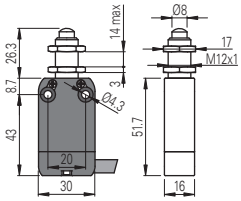
To order a product with AMP connector, replace DN2 with SAK in the codes shown above. Example:
NF B110AA-**DN2** → NF B110AA-**SAK**

All values in the drawings are in mm

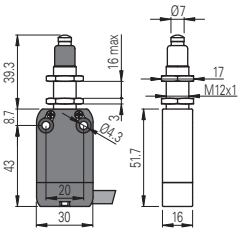
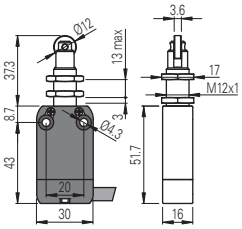
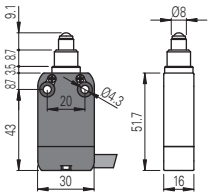
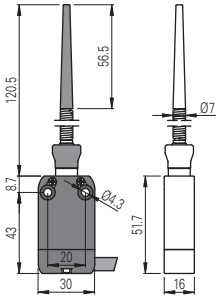
Accessories See page 195

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

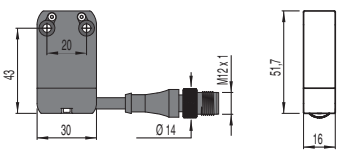
Contact type
R = snap action
L = slow action

Contact block		With steel roller with self-lubrication or 316L stainless steel 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 225 - type 3	page 225 - type 3	page 225 - type 3	page 225 - type 4
Actuating force		5 N (25 N →)	3 N (25 N →)	3 N (25 N →)	7 N (25 N →)
Travel diagrams		page 226 - group 2	page 226 - group 6	page 226 - group 3	page 226 - group 1

Contact type
R = snap action
L = slow action

Contact block		Secured only by means of threaded head External gasket	Secured only by means of threaded head With 316L stainless steel roller on request	Plunger with Ø 6 mm ball	External 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 225 - type 4	page 225 - type 2	page 225 - 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 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**

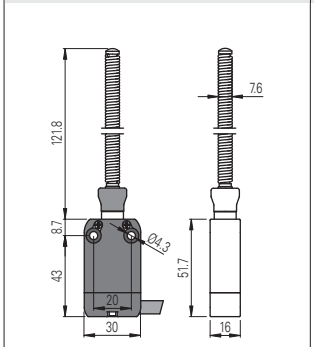
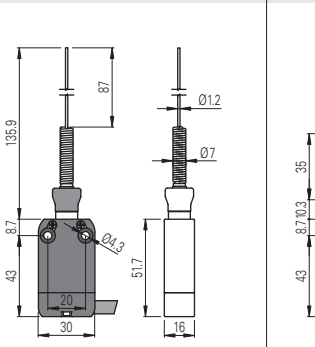
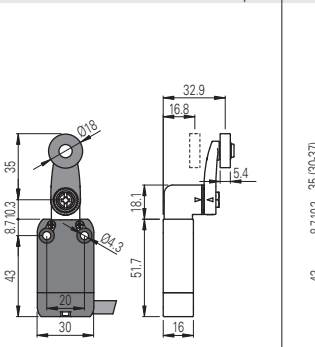
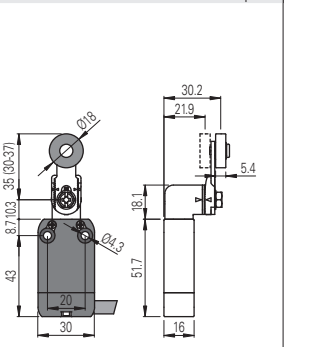
All values in the drawings are in mm

Accessories See page 195

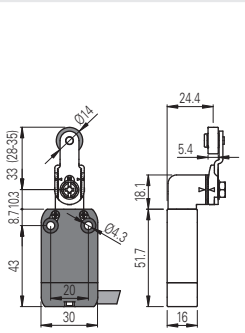
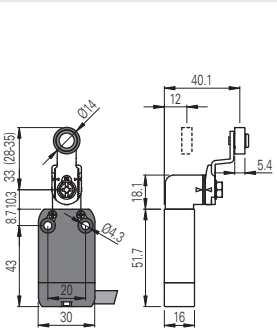
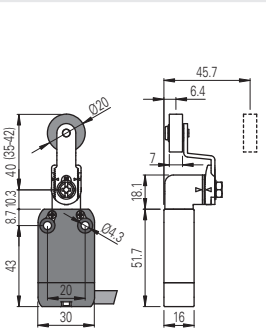
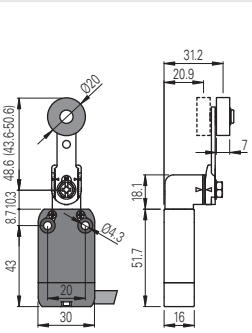
→ The 2D and 3D files are available at **www.pizzato.com**

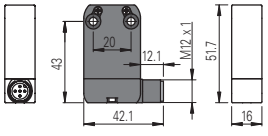
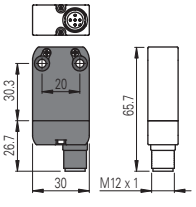
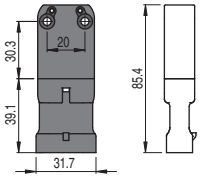
NF series modular pre-wired technopolymer switches

Contact type
R = snap action
L = slow action

Contact block		External gasket		External gasket		With Ø 20 mm steel roller with self-lubrication or stainless steel on request		With Ø 20 mm steel roller with self-lubrication or stainless steel 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 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
R = snap action
L = slow action

Contact block		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	
									
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**

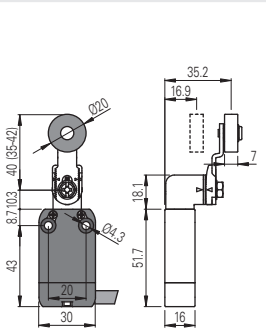
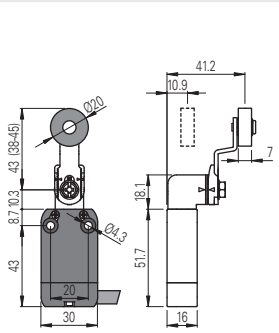
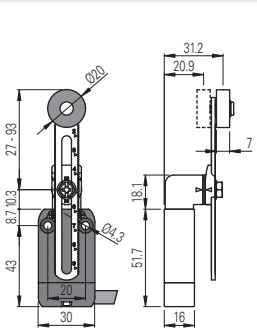
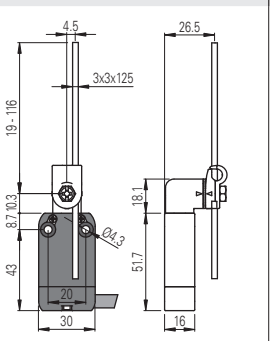
To order a product with AMP connector, replace DN2 with SAK in the codes shown above. Example:
NF B110AA-**DN2** → NF B110AA-**SAK**

All values in the drawings are in mm

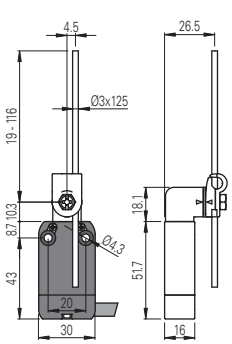
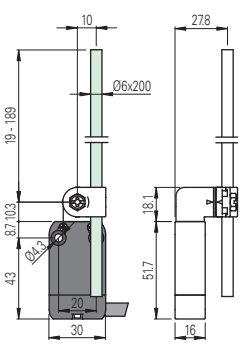
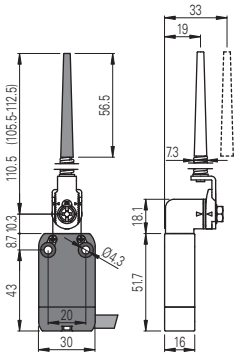
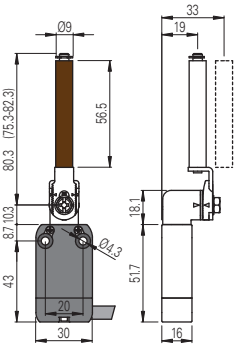
Accessories See page 195

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

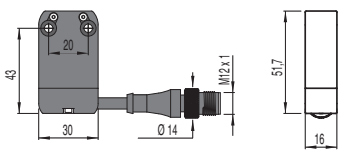
Contact type
R = snap action
L = slow action

Contact block		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	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 225 - type 1	page 225 - type 1	page 225 - 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 226 - group 5	page 226 - group 5	page 226 - group 5	page 226 - group 5

Contact type
R = snap action
L = slow action

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 226 - group 5	page 226 - group 5	page 226 - group 5	page 226 - group 5

Cable and M12 connector



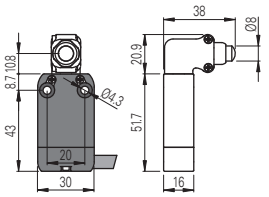
To order a product with cable and M12 connector:
replace DN2 with DM0.2 in the codes shown above. Example:
NF B110AA-**DN2** → NF B110AA-**DM0.2**

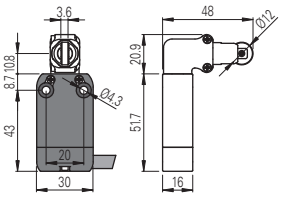
All values in the drawings are in mm

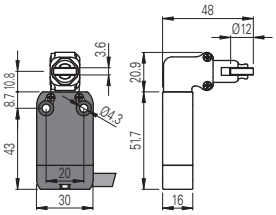
Accessories See page 195

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

Contact type
R = snap action
L = slow action



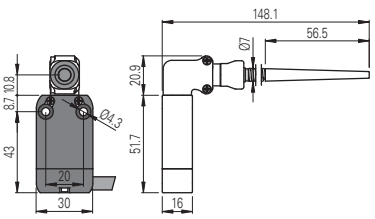


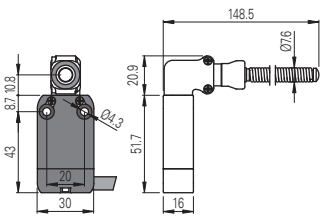


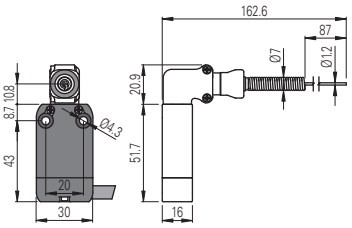
Contact block								
B11	R	NF B110AB-DN2W5	1NO+1NC	NF B110BB-DN2H0W5	1NO+1NC	NF B110BB-DN2W5	1NO+1NC
B02	R	NF B020AB-DN2W5	2NC	NF B020BB-DN2H0W5	2NC	NF B020BB-DN2W5	2NC
B12	R	NF B120AB-DN2W5	1NO+2NC	NF B120BB-DN2H0W5	1NO+2NC	NF B120BB-DN2W5	1NO+2NC
B22	R	NF B220AB-DN2W5	2NO+2NC	NF B220BB-DN2H0W5	2NO+2NC	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			

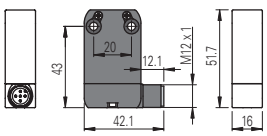


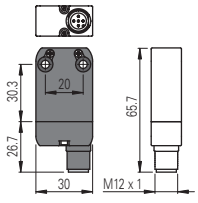


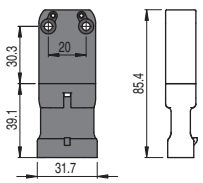


Contact block							
B11	R	NF B110HB-DN2W5	1NO+1NC	NF B110HE-DN2W5	1NO+1NC	NF B110HH-DN2W5	1NO+1NC
B02	R	NF B020HB-DN2W5	2NC	NF B020HE-DN2W5	2NC	NF B020HH-DN2W5	2NC
B12	R	NF B120HB-DN2W5	1NO+2NC	NF B120HE-DN2W5	1NO+2NC	NF B120HH-DN2W5	1NO+2NC
B22	R	NF B220HB-DN2W5	2NO+2NC	NF B220HE-DN2W5	2NO+2NC	NF B220HH-DN2W5	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

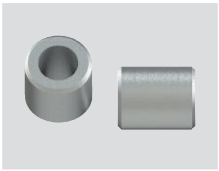
Accessories See page 195

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

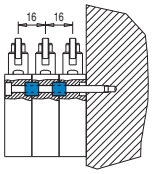
Accessories

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	
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

Cable length (L)	
1	1 metre
2	2 metres
3	3 metres (standard)
4	4 metres
5	5 metres (standard)
...	
10	10 metres (standard)

Other lengths on request.

Connection type	
M	M12x1

Fixing ring	
	knurled ring (standard)
X	stainless steel hex ring nut

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 mm² (23 AWG) ... 0.5 mm² (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



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

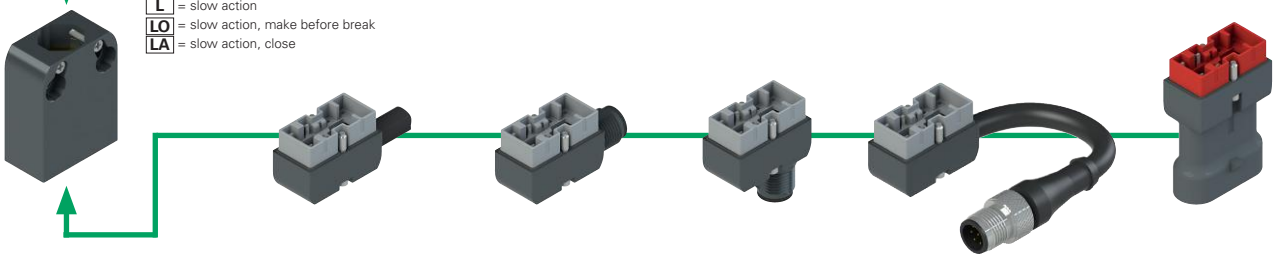


VN AA200 Metal head for swivelling lever actuators
VN A00KA Plastic swivelling lever, straight, with roller Ø 18 mm
VN A00KB Metal swivelling lever, straight, adjustable, with roller Ø 18 mm
VN A00KC Metal swivelling lever, profiled, adjustable, with roller Ø 14 mm
VN A00KD Metal swivelling lever, profiled,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

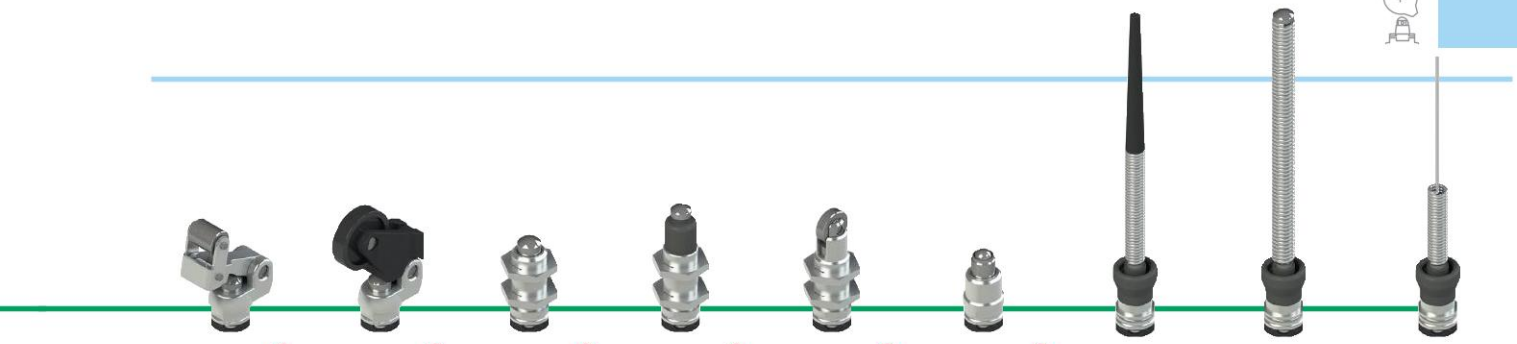
Contact type:
R = snap action
L = slow action
LO = slow action, make before break
LA = slow action, close



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 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 and external gasket

VN AA0FB Roller plunger with M12 threaded fitting

VN AA0GB Plunger with Ø 6 mm ball

VN AA0HB External gasket, spring rod with plastic tip

VN AA0HE External gasket, spring rod

VN AA0HH External gasket, spring rod with wire tip



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

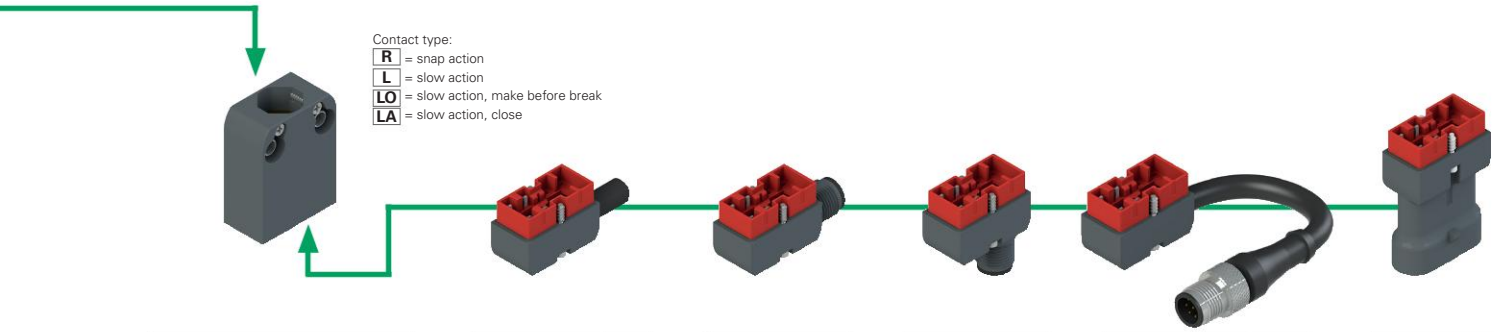
VN A00LE Metal swivelling lever with stainless steel rod Ø 3 x 125, adjustable

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

VN A00LL Metal swivelling lever with spring 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

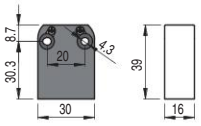
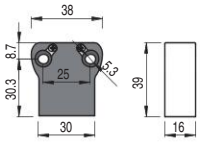
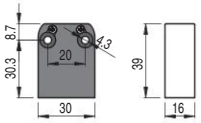


NF TECHNOPOLYMER housing, 20 mm hole spacing		Technopolymer connector with cable	Cable length (m)	M12 technopolymer connector, right	M12 technopolymer connector, bottom	Technopolymer connector with cable and M12 connector	Cable length (m)	AMP technopolymer connector, bottom
NF B11000	1NO+1NC R	VN CP11DN2	2	VN CP11DMK	VN CP11SMK	VN CP11DM0.2	0.2	VN CP11SAK
NF G11000	1NO+1NC L							
NF L11000	1NO+1NC LA	VN CP11DN5	5					
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							
NF L12000	1NO+2NC LA	VN CP12DN5	5					
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							
NF L22000	2NO+2NC LA	VN CP22DN5	5					
NF H22000	2NO+2NC LO							

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

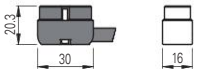
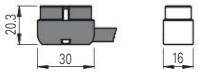
Housings

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

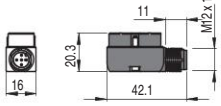
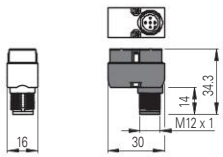
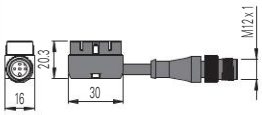
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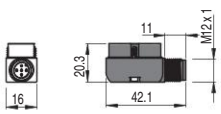
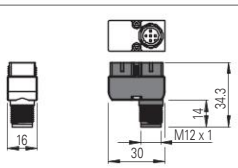
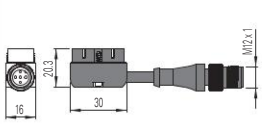
Connectors with cable

Cable type	Length (m)	metal connectors for NA and NB housings	technopolymer connectors for NF housings
			
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

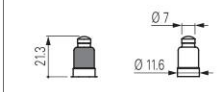
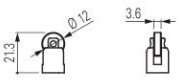
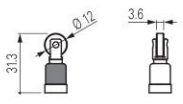
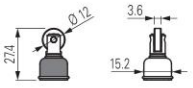
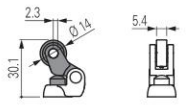
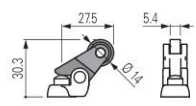
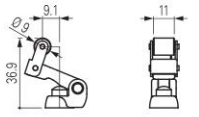
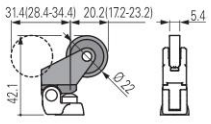
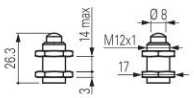
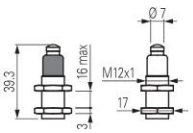
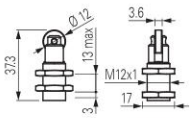
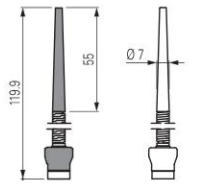
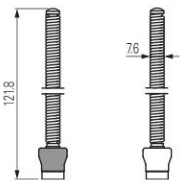
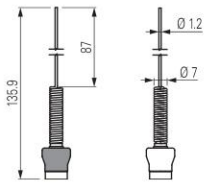
⚠ Important: Always check that the applied electric load is within the voltage and current limits defined for the connectors. See tables on page 106 and 116.

All values in the drawings are in mm

Accessories See page 195

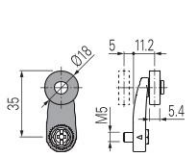
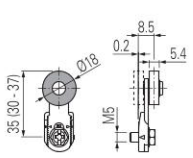
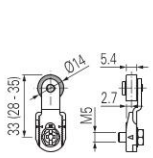
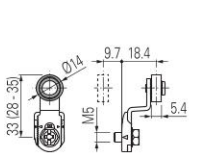
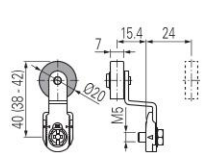
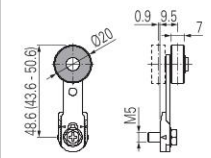
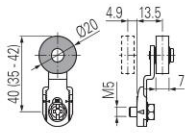
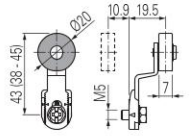
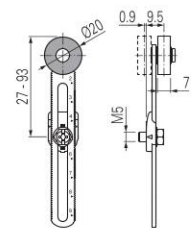
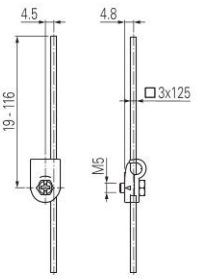
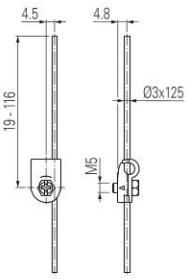
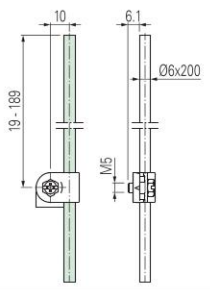
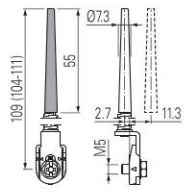
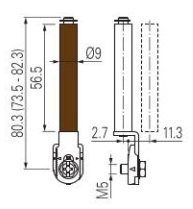
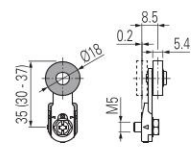
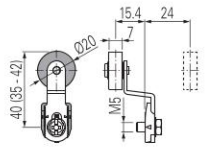
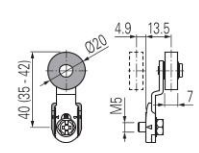
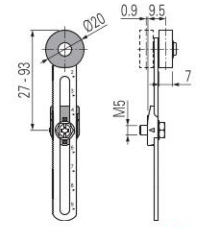
→ The 2D and 3D files are available at **www.pizzato.com**

Actuators

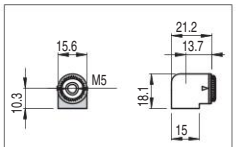
					
VN AA0AA	VN AA0AB	VN AA0AC	VN AA0AE	VN AA0BB	VN AA0BE
					
VN AA0BG	VN AA0CB	VN AA0CH	VN AA0CP	VN AA0CV	VN AA0EB
					
VN AA0EE	VN AA0FB	VN AA0GB	VN AA0HB	VN AA0HE	VN AA0HH

Levers

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

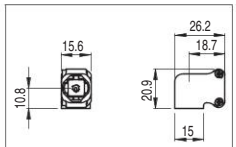
Technopolymer roller Ø 18 mm	Technopolymer roller Ø 18 mm	Technopolymer roller Ø 14 mm	Technopolymer roller Ø 14 mm	Technopolymer roller Ø 20 mm	Technopolymer roller Ø 20 mm
					
VN A00KA	VN A00KB	VN A00KC	VN A00KD	VN A00KE	VN A00KF
Technopolymer roller Ø 20 mm	Technopolymer roller Ø 20 mm	Adjustable safety actuator with technopolymer roller	Adjustable square rod, 3x3x125 mm	Adjustable round rod Ø 3x125 mm	Adjustable glass fibre rod
					
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
		With metallic parts in stainless steel			
					
VN A00LL	VN A00LP (2)	VN A00KB-V38	VN A00KE-V38	VN A00KG-V38	VN A00KP-V38

Heads



VN AA200

90° redirection



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**