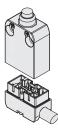
Description



The result of the long-standing expertise of Pizzato Elettrica in the creation of position switches, the NA, NB, NF series achieve the highest standard of flexibility and depth of range present today on the pre-wired switches market.

Configurable, adjustable, pivotable and, not least, customisable with special cables or custom wiring - these features make these series unique in the current European panorama, ideal for easily providing our customers with customised switches.

Switches with connectors



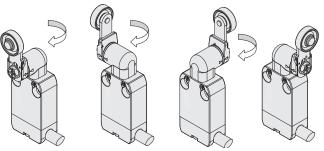
The new fundamental feature of this series of prewired switches is that the switch body and the wired connector are separated.

Using the connector the end-user can replace a product on field without having to disconnect the complete wiring.

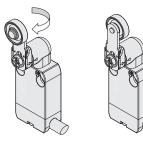
Moreover in this way it is easier to combine products with different cable types and lengths.

Head with variable orientation

All heads can be turned in 90° steps. The new head for swivelling levers has been designed with compact dimensions so that it does not protrude over the switch profile. Therefore, it is also possible to install the switches on the wall.



Reversible levers



For switches with swivelling lever, the lever can be fastened on straight or reverse side maintaining the positive coupling. In this way two different working

planes of the lever are possible.

Protection degrees IP67 and IP69K



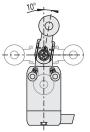
These devices are designed to be used under the toughest environmental conditions, and they pass the IP67 immersion test acc. to EN 60529. They can therefore be used in all environments where the maximum degree of protection is required for the

housing. Due to their special design, these devices are suitable for use in equipment subjected to cleaning with high pressure hot water jets. These devices meet the IP69K test requirements according to ISO 20653 (water jets with 100 bar and 80°C).

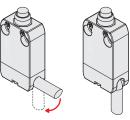
Adjustable levers

For switches with swivelling lever, the lever can be adjusted in 10° steps over the entire 360° range.

The positive movement transmission is always guaranteed thanks to the particular geometrical coupling between the lever and the revolving shaft as prescribed for safety applications by the German standard BG-GS-ET-15.



Orientable cable outputs



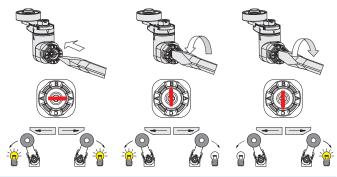
The connector with cable is provided with a cavity to allow cable bending up to 90° .

In this way a flush wall mounting is also possible as well as an easier adjustment of the cable to the supporting flange.

Unidirectional heads

All switches with swivelling lever are supplied with a selector for choosing the lever operating direction.

The following operations are possible: right/left (standard factory setting), only from the right or only from the left. The operating direction can be selected by rotating the dedicated ring mounted on all heads of this kind.



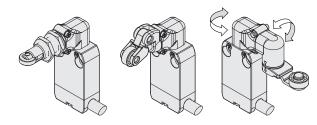
90° redirection for actuators



This component highly extends the application possibilities of this product range.

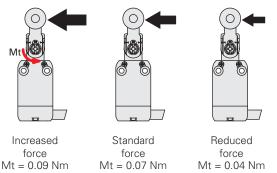
All the actuators that can be attached directly to the body of the switch can also be fastened on this transmission, thus making feasible applications and positioning of the switch that were previously impos-

sible. The redirection piece can also be used in case of heads for swivelling levers. Although technically possible, the use of multiple transmissions in series is not recommended.



Increased or reduced actuating force

For actuators with swivelling lever, versions with increased or reduced actuating force are available upon request, in order to have a switch perfectly tailored for the application. For further information contact our technical department.



(E25 option, NA-NB series)

(E24 option)

Positive opening contact blocks with 1, 2, 3 or 4 poles

⊖	1	
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	·	

These series of contact blocks are versatile and compact.

They have the same dimensions of the previous versions, but now it is possible to have up to 4 different contacts which are galvanically separated and provided with positive opening (NC contacts).

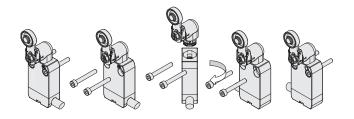
The allowed standard combinations are: 1NO+1NC, 2NC, 1NO+2NC, 2NO+2NC. Other combinations available on request.

The contact blocks have been designed so that they keep the same pin assignment on the connector independently of the action type (slow or snap action) and the number of contacts. In this way the same cables with connector can be used for units with slow action and snap action as well.

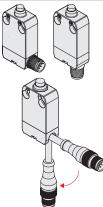
Reversible housing

The shape of the fixing holes and of the switch body, as well as the possibility of rotating the head, make this switch perfectly symmetrical.

If a switch with cable output on the left (since the connector cannot be rotated) is required, it is possible to rotate the complete device by maintaining the final position of the actuator unchanged.



M12 connectors

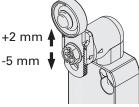


All contact configurations are available with M12 connector both with two contacts (with 5-pin M12 connector) as well as 3 or 4 contacts (with 8-pin M12 connector). Exit directions below or to the right allow application in narrow spaces; in addition the reversible housing easily allows changing the exit direction from right to left by simply turning the switch. The M12 connector is also available at the end of the cable, whose length can be tailored to the customer's requirements. and the cable can be bent at 90°, allowing installation on walls

Adjustable levers with anti-unscrewing washer

In some applications during the installation of the switches problems are encountered due to the variability of the fastenings and the folds of the structural work

In other cases, small finishing



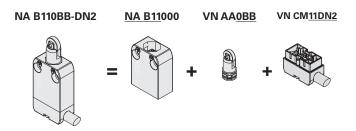
adjustments are required due to the application. Nearly all swivelling levers for switches of the NA, NB and NF series can be adjusted

in 1 mm steps along the switch length. This feature, combined with the additional possibility of the radial adjustment of the actuator, provides the installer with a never before

achieved flexibility in the final adjustment of the product. All this while maintaining the positive geometric locking between lever and swivel shaft as prescribed for safety applications.

Switch components available separately

This product series has been provided with a modular design so that single parts can also be ordered separately. This is an asset both for distributors and for final customers of electrical material in the procurement of spare parts as well as for custom combinations.



Extended temperature range

These devices are also available in a special version suitable for an ambient operating temperature range from -40°C up to +80°C.

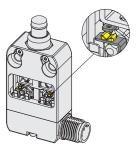
They can therefore be used for applications in cold stores, sterilisers, and other equipment operated in very low-temperature environments. The special materials used to produce these versions retain their characteristics even under these conditions, thereby expanding the installation possibilities.

AMP connectors



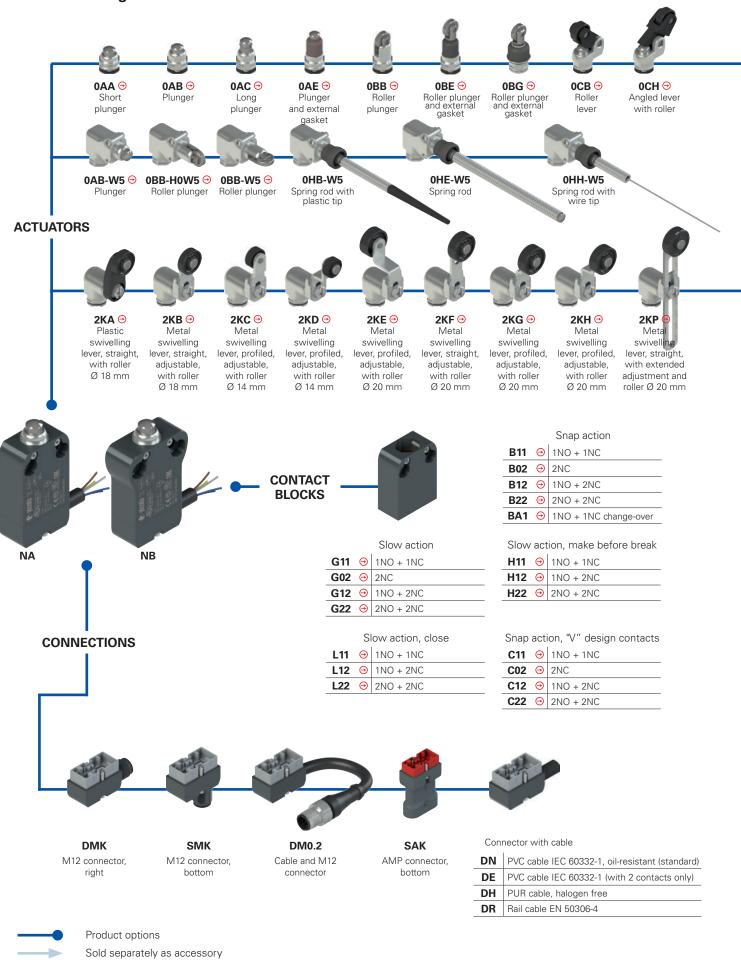
Furthermore, AMP connectors for 2-contact versions are available too. These connectors, specially developed for the automotive industry, are immune to vibration due to the quick coupling.

High reliability contacts with "V" design



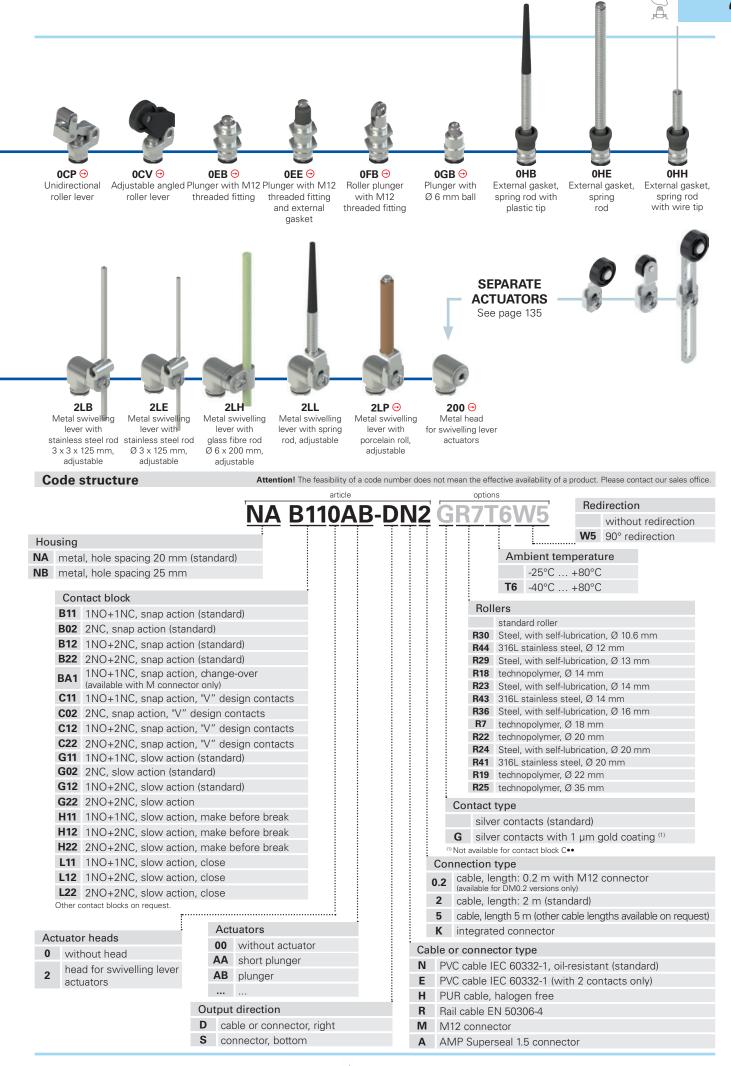
Articles with contact block C11, C02, C12, C22 are characterised by electrical contacts with a "V" design. This configuration reduces the possibility of error during operation and guarantees even more reliable contact switching, thanks to the contact points doubled compared to the flat-shaped contacts and the self-cleaning action of the contact. In the version with snap action contact, these articles are particularly suitable for use in the railway sector.

Selection diagram for item combinations of the NA-NB series



4







Main features

- Metal housing, right or bottom cable output
- Protection degrees IP67 and IP69K
- 4 types of integrated cable available
- Versions with M12 connector suitable for safety applications ⊕
- Versions with AMP connector
- 19 contact blocks available
- 36 actuators available



IMQ approval: UL approval: CCC approval: EAC approval:

CA02.04562 E131787 2021000305000109 RU C-IT.YT03.B.00035/19 **Technical data**

Housing

Metal housing, baked with UV resistant powder coating. Versions with integrated cable, standard length 2 m, other lengths 0.5 ... 10 m 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: \geq 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) See table on page 118 Ambient temperature for switches with cable: 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: anv 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 type 1 acc. to EN ISO 14119 Mechanical interlock, not coded: Vibration resistance 5 ... 150 Hz (7.9 m/s²) acc. to EN 61373 cl. 9 (0BB, 2KB, 2KC, 2KD actuators): Tightening torques for installation: see page 235 **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, IEC 60529, 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 118) 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 236. Actuate the switch at least with the positive opening force, reported in brackets below each article, next to the actuating force value.

 ${ar \Delta}$ If not expressly indicated in this chapter, for correct installation and utilization of all articles see the instructions given on pages 227 to 242.

 ${ar \Delta}$ Important: Switch off the circuit voltage before disconnecting the connector from the switch. The connector is not suitable for separation of electrical loads. According to EN 60204-1, versions with 8-pole M12 (2NO+2NC) and AMP connector can be used only in SELV circuits.

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 5-pole M12 connector)
Protection against short circuits (fuse):	10 A (1-2 contacts) / 6 A (2-3 contacts) /
	4 A (4 contacts or 5-pole M12 connector) type gG
Rated impulse withstand voltage (U _{imp}):	4 kV
Protection degree of the housing:	IP67 / IP69K
MA terminals (crimped terminals)	
Pollution degree:	3
Utilization category:	AC15 / DC13 (with connector)
Operating voltage (U):	250 Vac (50 Hz) / 24 Vdc (with connector)
Operating current (I):	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)
Environmental Ratings:	C300 pilot duty (180 VA, 120 240 Vac) (4 cont.) Types 1, 4X, 6, 12, 13
	Types 1, 4X "indoor use only" (1 - 2 cont. with "E" type cable)
Screws torque of the deta	achable connector housing nominal are 0.3 \div 0.6 Nm.

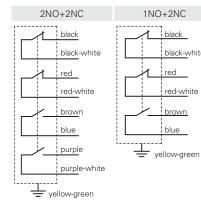
Please contact our technical department for the list of approved products.

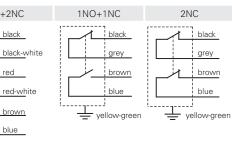




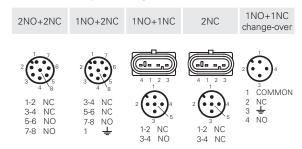
	Conne	ction type				Output v	vith cable				Output with M12 connector				
	Contac	t block		2 cor	tacts		3 cor	itacts	4 co	ntacts	2 contacts	3 or 4 contacts	2 contacts		
	Cable	or connector type	E	N	Н	R	N	Н	N R		M12 connector, M12 connector, 5-pole 8-pole		AMP Super- seal		
	Condu	ctors	5x0.75 mm ²	5x0.75 mm ²	5x0.75 mm ²	5x0.5mm ²	7x0.5 mm ²	7x0.5 mm ²	9x0.34 mm ²	9x0.5 mm ²	5x0.25 mm ²	8x0.25 mm ²	1.5 con- nector		
	Application field		General	General	General, mobile installation	Rail	General	General, mobile installation	General	Rail	General	General	General		
	In compliance with standards		H05VV-F	05VV5-F	05EQ-H	EN50306-4 1E-300V 5G0,5 mm ² MM-90 EN 50306-4 EN 45545	03VV-F	03E7Q-H	03VV-F	EN50306-4 1P-300V- 9G0.5 mm ² MM-90 EN 50306-4 EN 45545	03VV-H	03VV-H	/		
	Sheath	1	PVC	PVC OIL RESISTANT	PUR HALOGEN FREE	/	PVC OIL RESISTANT	PUR HALOGEN FREE	PVC OIL RESISTANT	/	PVC OIL RESISTANT	PVC OIL RESISTANT	/		
Cable features	Self-ex	tinguishing	IEC 60332-1-2	IEC 60332-1-2 UL 758:FT1 CEI 20-22 II	IEC 60332-1-2 UL 758:FT1	IEC 60332-1 EN 50305 EN 50306-1	IEC 60332-1-2 UL 758:FT1 CEI 20-22 II	IEC 60332-1-2 UL 758:FT1	IEC 60332-1-2 UL 758:FT1 CEI 20-22 II	IEC 60332-1 EN 50305 EN 50306-1	IEC 60332-1-2 CEI 20-22 II UL 758:FT1	IEC 60332-1-2 CEI 20-22 II UL 758:FT1	/		
able	Oil res	istant	/	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. s	peed	/	/	300 m/min	/	/	300 m/min	/	/	50 m/min	50 m/min	/		
	Max. a	cceleration	/	/	30 m/s ²	/	/	30 m/s²	/	/	5 m/s ²	5 m/s ²	/		
	Minim	um bending radius	80 mm	80 mm	80 mm	60 mm	108 mm	80 mm	108 mm	65 mm	75 mm	90 mm	/		
	Outer	diameter	8 mm	8 mm	8 mm	6 mm	7 mm	7 mm	7 mm	6.5 mm	6 mm	6 mm	/		
	End st		80 mm	80 mm	80 mm	80 mm	80 mm	80 mm	80 mm	80 mm	/	/	/		
		r conductors IEC 60228	Class 5	Class 5	Class 6	Class 5	Class 5	Class 6	Class 5	Class 5	, Class 6	, Class 6	/		
	Engraving		Standard	6268	6280	Standard	6274	6282	6278	Standard	6267	6275			
and	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	-25°C +80°C	-25°C +80°C	/		
tanda	Cable, flexible installation		+5°C +60°C	-5°C +80°C	-25°C +80°C	-25°C +80°C	-5°C +80°C	-25°C +80°C	-5°C +80°C	-25°C +80°C	-15°C +80°C	-15°C +80°C	/		
S and	Cabl	e, mobile installation	/	/	-25°C +80°C	/	/	-25°C +80°C	/	/	-15°C +80°C	-15°C +80°C	/		
(T6)	Cable, fixed installation		/	/	-40°C +80°C	-40°C +80°C	/	-40°C +80°C	/	-40°C +80°C	/	/	/		
extended (T6) standard	Cable, flexible installation		/	/	-40°C +80°C	-40°C +80°C	/	-40°C +80°C	/	-40°C +80°C	/	/	/		
ext	Cabl	e, mobile installation	/	/	-40°C +80°C	/	/	-40°C +80°C	/	/	/	/	/		
	Т	hermal current lth	10 A	10 A	10 A	6 A	6 A	6 A	3 A	4 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	250 Vac	250 Vac 300 Vdc	30 Vac 36 Vdc	30 Vac		
ical data	Prot	ection 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	6 A 500 V type gG	6 A 500 V type gG	3 A 500 V type gG	4 A 500 V type gG	4 A 500 V type gG	2 A 500V type gG	10 A 500 V type g0		
ical	۶≥	24 V	2 A	2 A	2 A	2 A	2 A	2 A	2 A	2 A	2 A	2 A	2 A		
Electri	Utilizatio categor 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	0.4 A	/	/		
ш :	∃ ü	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	0.3 A	/	/		
	- \	24 V	4 A	4 A	4 A	4 A	4 A	4 A	3 A	4 A	4 A	2 A	4 A		
	Utilization category AC15	120 V	4 A	4 A	4 A	4 A	4 A	4 A	3 A	4 A	4 A	/	/		
	Ca	250 V	4 A	4 A	4 A	4 A	4 A	4 A	3 A	4 A	4 A	/	/		
	ŀ	Approvals	CE cULus IMQ EAC CCC	CE cULus IMQ EAC CCC	CE cULus IMQ EAC CCC	CE IMQ EAC CCC	CE cULus IMQ EAC CCC	CE cULus IMQ EAC CCC	CE cULus IMQ EAC CCC	CE IMQ EAC CCC	CE cULus IMQ EAC CCC	CE cULus EAC	CE cUL EAC		

Internal cable wiring





Connector pin assignment



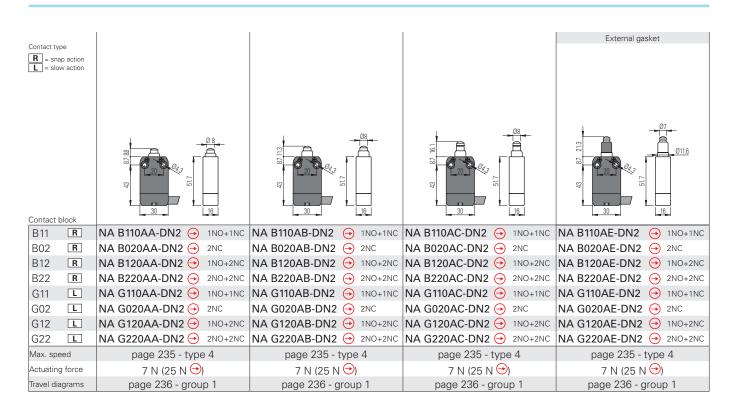
Female connectors see page 210

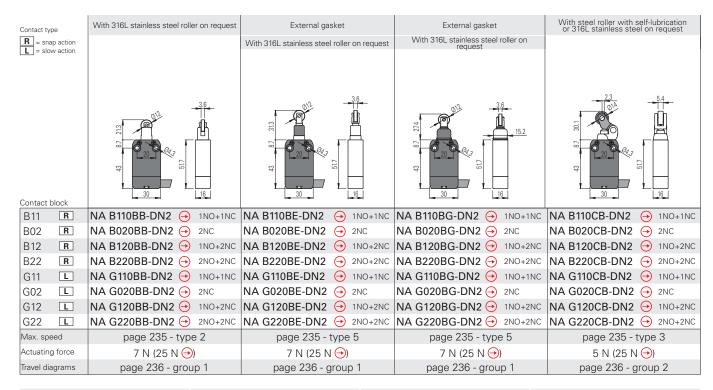
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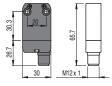




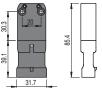
To order a product of the NB series, replace NA with NB in the codes shown above. Example: NA B110AA-DN2 → NB B110AA-DN2

M12 connector, right

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



To order a product with M12 bottom connector, replace DN2 with SMK in the codes shown above. Example: NA B110AA-DN2 → NA B110AA-SMK AMP Superseal 1.5 connector



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

All values in the drawings are in mm

Accessories See page 207

🕩 pizzato

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

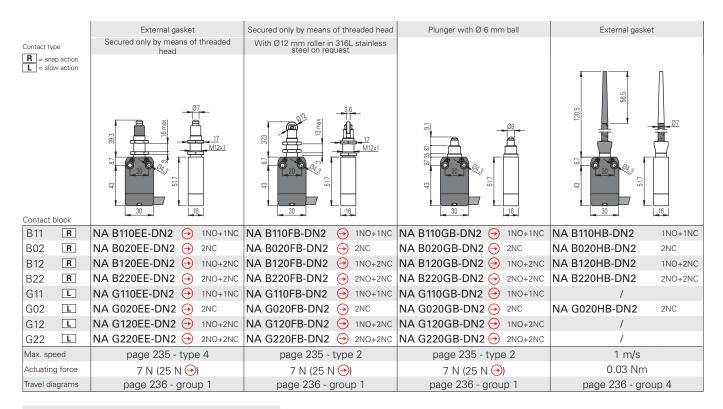
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Contact ty	ne	With steel roller with self-lubrication or 316L stainless steel on request	Unidirectional operation		Secured only by means of threaded head
R = sna					
			It does not switch		
Contact b	black	275 54 50 50 50 50 50 54 54 54 54 54 54 54 54 54 54 54 54 54		314/28 434 4) 202(172/232) 5.4 	68 17 17 10 10 10 10 10 10 10 10 10 10
B11	R	NA B110CH-DN2 → 1NO+1NC	NA B110CP-DN2 → 1NO+1NC	NA B110CV-DN2 → 1NO+1NC	NA B110EB-DN2 1NO+1NC
B02	R	NA B020CH-DN2 🕣 2NC	NA B020CP-DN2 O	NA B020CV-DN2 🔶 2NC	NA B020EB-DN2 🔶 2NC
B12	R	NA B120CH-DN2 1NO+2NC	NA B120CP-DN2 O 1NO+2NC	NA B120CV-DN2 O 1NO+2NC	NA B120EB-DN2 🔶 1NO+2NC
B22	R	NA B220CH-DN2 O 2NO+2NC	NA B220CP-DN2 → 2NO+2NC	NA B220CV-DN2 🔶 2NO+2NC	NA B220EB-DN2 😔 2NO+2NC
G11	L	NA G110CH-DN2 \rightarrow 1NO+1NC	NA G110CP-DN2 → 1NO+1NC	NA G110CV-DN2 → 1NO+1NC	NA G110EB-DN2 🔶 1NO+1NC
G02	L	NA G020CH-DN2 🔶 2NC	NA G020CP-DN2 O 2NC	NA G020CV-DN2 😔 2NC	NA G020EB-DN2 🔶 2NC
G12	L	NA G120CH-DN2 → 1NO+2NC	NA G120CP-DN2 O 1NO+2NC	NA G120CV-DN2 \bigcirc 1NO+2NC	NA G120EB-DN2 🔶 1NO+2NC
G22	L	NA G220CH-DN2 \bigcirc 2NO+2NC	NA G220CP-DN2 \bigcirc 2NO+2NC	NA G220CV-DN2 🔶 2NO+2NC	NA G220EB-DN2 🔶 2NO+2NC

page 235 - type 3

3 N (25 N 🔿)

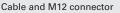
page 236 - group 3



page 235 - type 3

3 N (25 N 🔶)

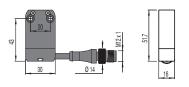
page 236 - group 6



page 235 - type 3

5 N (25 N 🔿)

page 236 - group 2



To order a product with cable and M12 connector

replace DN2 with DM0.2 in the codes shown above. Example: NA B110AA-**DN2** → NA B110AA-**DM0.2**

Max. speed

Actuating force

Travel diagrams

120

page 235 - type 4

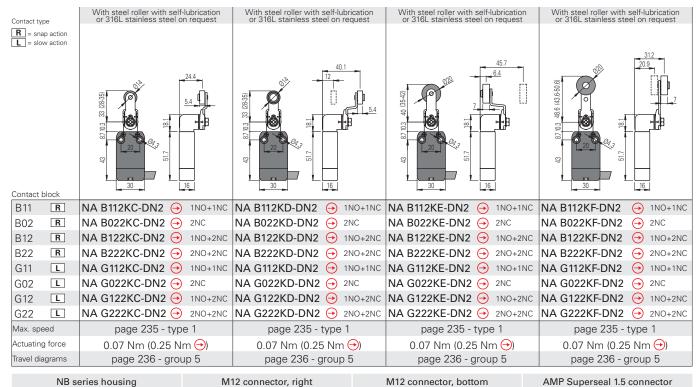
7 N (25 N 🔿)

page 236 - group 1

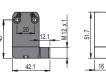
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NA-NB series modular metal pre-wired switches

Contact ty	20	External gasket	External gasket	With Ø 20 mm steel roller with self-lubrication or 316L stainless steel on request	With Ø 20 mm steel roller with self-lubrication or 316L stainless steel on request
Contact type R = snap action L = slow action					30.2 219 5.4 5.4 5.4 5.4 5.4 5.4
Contact I					
B11	R	NA B110HE-DN2 1NO+1NC	NA B110HH-DN2 1NO+1NC	NA B112KA-DN2 1NO+1NC	NA B112KB-DN2 → 1NO+1NC
B02	R	NA B020HE-DN2 2NC	NA B020HH-DN2 2NC	NA B022KA-DN2	NA B022KB-DN2 O 2NC
B12	R	NA B120HE-DN2 1NO+2NC	NA B120HH-DN2 1NO+2NC	NA B122KA-DN2 🔶 1NO+2NC	NA B122KB-DN2 \bigcirc 1NO+2NC
B22	R	NA B220HE-DN2 2NO+2NC	NA B220HH-DN2 2NO+2NC	NA B222KA-DN2 \bigcirc 2NO+2NC	NA B222KB-DN2 \bigcirc 2NO+2NC
G11	L	/	/	NA G112KA-DN2 🔶 1NO+1NC	NA G112KB-DN2 🕣 1NO+1NC
G02	L	NA G020HE-DN2 2NC	NA G020HH-DN2 2NC	NA G022KA-DN2 🔶 2NC	NA G022KB-DN2 🔶 2NC
G12	L	/	/	NA G122KA-DN2 → 1NO+2NC	NA G122KB-DN2 O 1NO+2NC
G22	L	/	/	NA G222KA-DN2 🔶 2NO+2NC	NA G222KB-DN2 $ ightarrow$ 2NO+2NC
Max. spe	eed	1 m/s	1 m/s	page 235 - type 1	page 235 - type 1
Actuating	g force	0.07 Nm	0.03 Nm	0.07 Nm (0.25 Nm 🔿)	0.07 Nm (0.25 Nm 🔶)
Travel dia	agrams	page 236 - group 4	page 236 - group 4	page 236 - group 5	page 236 - group 5

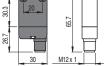






To order a product with M12 right connector, replace DN2 with DMK in the codes shown above. Example: NA B110AA-DN2 → NA B110AA-DMK





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

35.4

replace DN2 with SAK in the codes shown above. Example: NA B110AA-**DN2** → NA B110AA-**SAK**

All values in the drawings are in mm

To order a product of the NB series,

replace NA with NB in the codes shown

NA B110AA-DN2 → NB B110AA-DN2

Accessories See page 207

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

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above. Example:

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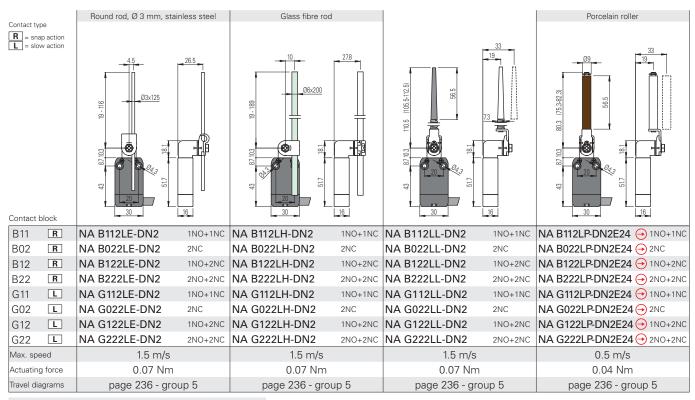
General Catalogue Detection 2023-2024

Methodos I and a strategic fit to design			
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
NA B112KG-DN2 🔶 1NO+1NC	NA B112KH-DN2 → 1NO+1NC	NA B112KP-DN2 🔶 1NO+1NC	NA B112LB-DN2 1NO+1NC

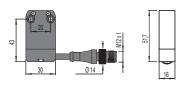
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Contact I	block	30 16	30 16	30 16	30 16	
B11	R	NA B112KG-DN2 🔶 1NO+1	C NA B112KH-DN2 1NO+1NC	NA B112KP-DN2 → 1NO+1NC	NA B112LB-DN2 1NO+1NC	
B02	R	NA B022KG-DN2 O	NA B022KH-DN2 🔶 2NC	NA B022KP-DN2 🔶 2NC	NA B022LB-DN2 2NC	
B12	R	NA B122KG-DN2 🔶 1NO+2	C NA B122KH-DN2 → 1NO+2NC	NA B122KP-DN2 → 1NO+2NC	NA B122LB-DN2 1NO+2NC	
B22	R	NA B222KG-DN2 O	C NA B222KH-DN2 → 2NO+2NC	NA B222KP-DN2 → 2NO+2NC	NA B222LB-DN2 2NO+2NC	
G11	L	NA G112KG-DN2 🔶 1NO+1	C NA G112KH-DN2 → 1NO+1NC	NA G112KP-DN2 → 1NO+1NC	NA G112LB-DN2 1NO+1NC	
G02	L	NA G022KG-DN2 O	NA G022KH-DN2 O 2NC	NA G022KP-DN2 🔶 2NC	NA G022LB-DN2 2NC	
G12	L	NA G122KG-DN2 🔶 1NO+2	C NA G122KH-DN2 → 1NO+2NC	NA G122KP-DN2 \rightarrow 1NO+2NC	NA G122LB-DN2 1NO+2NC	
G22	L	NA G222KG-DN2 O	C NA G222KH-DN2 → 2NO+2NC	NA G222KP-DN2 → 2NO+2NC	NA G222LB-DN2 2NO+2NC	
Max. spe	eed	page 235 - type 1	page 235 - type 1	page 235 - type 1	1.5 m/s	
Actuating	g force	0.07 Nm (0.25 Nm 🔿)	0.07 Nm (0.25 Nm 🔿)	0.07 Nm (0.25 Nm 🔿)	0.07 Nm	
Travel dia	agrams	page 236 - group 5	page 236 - group 5	page 236 - group 5	page 236 - group 5	



Cable and M12 connector



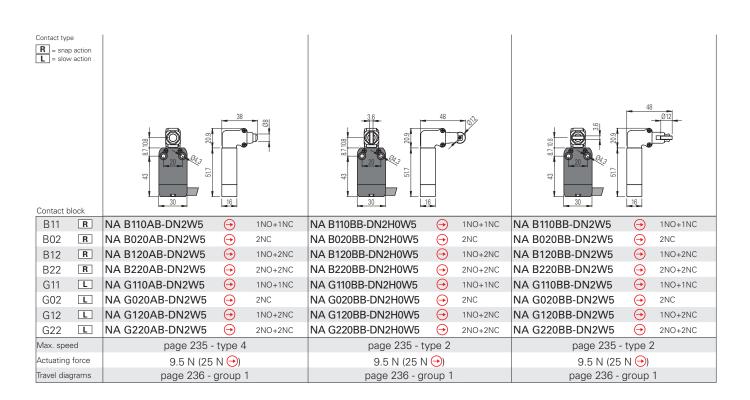
To order a product with cable and M12 connector:

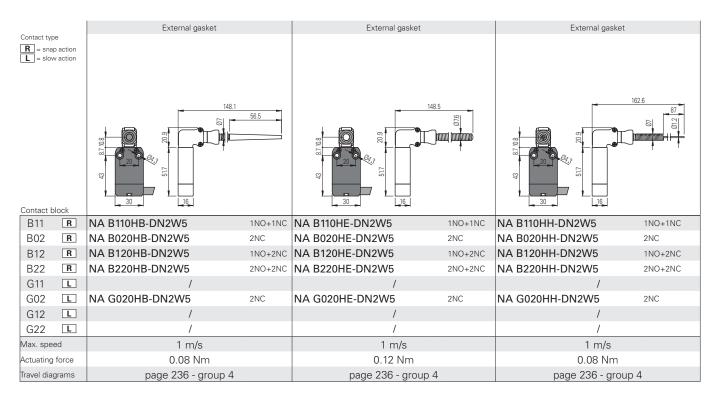
replace DN2 with DM0.2 in the codes shown above. Example: NA B110AA-DN2 \rightarrow NA B110AA-DM0.2

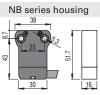
Contact type **R** = snap action **L** = slow action

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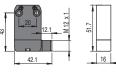
NA-NB series modular metal pre-wired switches



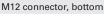


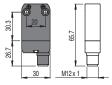


M12 connector, right



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





To order a product with M12 bottom connector, replace DN2 with SMK in the codes shown above. Example: NA B110AA-**DN2** → NA B110AA-**SMK** AMP Superseal 1.5 connector



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

All values in the drawings are in mm

To order a product of the NB series,

NA B110AA-DN2 → NB B110AA-DN2

replace NA with NB in the codes shown

Accessories See page 207

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

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above. Example:

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Accessories

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, preven- ting them from slipping.			

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		optic	-				🕅 Stock items
	VF CA4P	<u>D3M</u>	1-2					VF CA4PD3M
			:		··• :			VF CA4PD5M
No	o. of poles		Conr	nection type	Fixi	ing ring		VF CA4PD10M
								VF CA5PD3M
4	4 poles		М	M12x1		knurled ring (standard)		VF CA5PD5M
5	5 poles				Х	stainless steel hex ring nut		VF CA5PD10M
8	8 poles							VF CA8PD3M
40		Cab	ole le	ngth (L)				VF CA8PD5M
12	12 poles	1	1 n	netre				VF CA8PD10M
0.1								VF CA8PD20M
Cat	ole sheath	2	2 n	netres				VF CA12PD3M
Ρ	PVC (standard)	3	3 n	netres (standard)				VF CA12PD5M
U	PUR	4	4 n	netres				VF CA12PD10M
		5	5 n	netres (standard)				VF CA12PD20M
	Connector type		511					VF CA12PD30M
								VF CA8UD5M-X
	D straight (standard	⁾ 10	10	metres (standard)		Attention! For items n		VF CA8UD10M-X
	G angled	Othe	er leng	gths on request.		stock the minimum order guantity is 100 pcs.		VF CA12UD10M-X

Field wireable M12 female connectors

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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					
Descri	ption						
iold v	wireable M12 female connector	straight for $\emptyset A = \emptyset 6.5$ mm multipolar cables					

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 \dots Ø 6.5 mm multipolar cables	5
VF CBMP8DM04	Field wireable M12 female connector, straight, for Ø 4 \dots 7 mm multipolar cables	8

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

