

RFID Safety switch with solenoid NG series



Description



These switches are used on machines where the hazardous conditions remain for a while, even after the machines have been switched off, for example because of mechanical inertia of pulleys, saw disks, parts under

pressure or with high temperatures. They can also be used when it is necessary to control machine guards allowing the opening of protections only under specific conditions. Models with activation Mode 1 (safety outputs active with guard closed and locked) are considered as interlocking device with guard locking in compliance with EN ISO 14119, they have the symbol aside on the product marking.

Connection of several switches in series

One of the most relevant features of the NG line is the optional connection in series of several switches, up to a maximum number of 32 devices, while maintaining the maximum PL e safety level according to the EN 13849-1 standard and the SIL 3 safety level according to the

a safety PLC.

Maximum safety with a single device

circuits having maximum PL e and SIL 3 safety levels by fitting just one

device on the protection. This avoids expensive wiring on the field and

allows quicker installation. Inside the panel, the two electronic safety

outputs must be connected to a safety module with OSSD inputs or to

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NG 2D1D411A-F31

Constructed with redundant elec-

tronic technology, the NG series

switches make it possible to create

EN 62061 standard.

e+

Such connection method is permitted in safety systems where a safety module, which evaluates the outputs of the last NG switch, is present at the end of the chain.

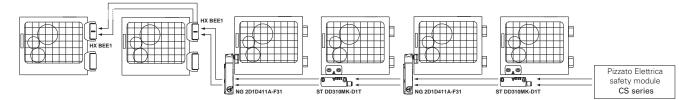
The fact that the PL e safety level can be maintained, even with 32 switches connected in series, is indicative of the extremely safe structure found inside each individual device.

Connection in series to other devices

The NG series features two safe inputs and two safe outputs, which can be connected in series with other Pizzato Elettrica safety devices. This option allows the creation of safety chains containing various devices, for example the creation of circuits with connections in series, including stainless steel safety hinges (HX BEE1 series), transponder sensors (ST series) and door lock sensors (NG series), while maintaining maximum PL e and SIL 3 safety levels.

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NG 2D1D411A-F31



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NG 2D1D411A-F31

RFID actuators with high coding level



NG series features an electronic system based on RFID technology to detect the actuator. This system gives a different coding to each actuator and makes it impossible to tamper with a device by using another actuator belonging to the same series. The actuators may have millions of different coding combinations, and are therefore classified as actuators with a high

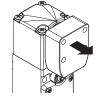
coding level, according to EN ISO 14119.

Dustproof



The switch is provided with a through hole for inserting the actuator and, thanks to this peculiarity, any dust which may go inside the actuator hole can always come out of the opposite side instead of being left there. Moreover, the lock pin is provided with an external diaphragm gasket which makes it suitable for any environment where dust is present.

Locked actuator holding force



The sturdy interlocking system guarantees the F_{zh} actuator

Pizzato Elettrica

safety module CS series

a maximum holding force equal to 7500 N, corresponding to a breaking force F_{1max} equal to 9750 N.

This is one of the highest values available on the market today, making this device suitable for severe heavy-duty applications.

High protection degree



Designed for use in even the more severe conditions, these devices pass the immersion test IP67 according to IEC 60529. They can be used in all environments that require the highest degree of protection of the enclosure. Special expedients allow also to use the devices in

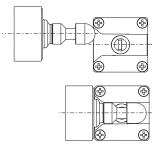
machines that are subjected to washing with warm water jets at high pressure. In fact, these devices pass the IP69K test according to ISO 20653 with jets of water at 100 atmospheres and temperature at 80 ° C.

Push-in spring connections



The switch is provided with a PUSH-IN type spring connection system on the inside. This technology allows quick handy wiring, since the wire simply needs to be inserted in the appropriate hole for it to be secured and for the electrical connection to be established. Such operation can be carried out without the help of any tool but just using rigid or flexible wires with a tip. The wires can be released by pressing the appropriate wirereleasing push-buttons.

Centring



The switch is provided with a wide centring inlet for the actuator pin. Such solution makes it easier to align the actuator with the hole found in the head during the fitting stage. Moreover, this solution drastically reduces any probable collisions between the actuator and the switch, also allowing it to be fitted on inaccurate doors.

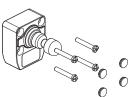


6 LEDs for immediate diagnosis



As the LEDs have been designed for quick immediate diagnosis, the status of each input and output is highlighted by one specific LED. This makes it possible quickly identify the interruption to points in the safe chain, which device is released, which door is opened and any errors inside the device. All that in a straightforward way without needing to decode complex blinking sequences.

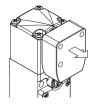
Double anti-tampering safety



Each NG series actuator is supplied with four stainless steel anti-crash screws. for it to be fitted on the protection. Four protection insert caps are also supplied together with the screws. Besides preventing any deposit from building up and making it easy to clean the actuator, these caps help to prevent any tampering

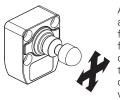
as they obstruct access to the anti-crash screws.

Unlocked actuator holding force



The inside of each switch features a device which holds the actuator in its closed position. Ideal for all those applications where several doors are unlocked simultaneously, but only one is actually opened. The device keeps all the unlocked doors in their position, stopping any vibrations or gusts of wind from opening them.

Articulated joint for inaccurate doors



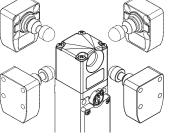
All the NG series actuators are articulated, and allow the pin to match the centring hole found in the switch. This way there is no need for precise actuator-switch aligning operations during the fitting stage. Moreover, thanks to its flexibility, this device can be used on doors with an activating range up to 150 mm, without having to tilt the pin beforehand.

Laser marking



All the NG series switches are marked indelibly by means of a dedicated laser system which makes the marking suitable for extreme environment. Thanks to this system, which does not use labels, it is possible to avoid the loss of identification data and to make the marking more resistant over the years.

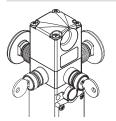
Adjustable head and devices



The head can be quickly positioned on all four sides by turning the 4 fixing screws.

The lock release devices and the release push-button can also be adjusted by 90° at a time, thus obtaining as many as 16 different configurations with the same article.

Lock release device and anti-panic button



The lock release device allows the actuator release only to staff who possess the actuating key. It also works in absence of power supply and once actuated it prevents the guard arrest.

The anti-panic button allows the actuator release, and the immediate opening of the door. Generally used in machines in which an operator may inadvertently remain trapped, it is directed towards the

inner part of the machine allowing the exit of the operator even in case of black out. Equipped with bistable operation it can be freely extended with special extensions (see accessories).

Both of these devices can be oriented on the four sides of the switch, thus allowing the installation both inside and outside the machine.

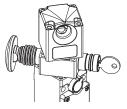
Two modes of safe outputs activation

CLOSED OR CLOSED & LOCK safe outputs active with guard closed and locked (Mode 1) for

The switch can be chosen between two different modes of activation of the safe outputs: machines with inertia, or safe

outputs active with guard closed (Mode 2) for machines without inertia.

Non-detachable heads and devices



The head and the release device can be adjusted but cannot be detached from each other. This makes the switch more secure since the installer need not worry about how to assemble the various pieces, and the switch is less likely to become damaged (small parts being lost, dirt getting in etc.).

External device monitoring

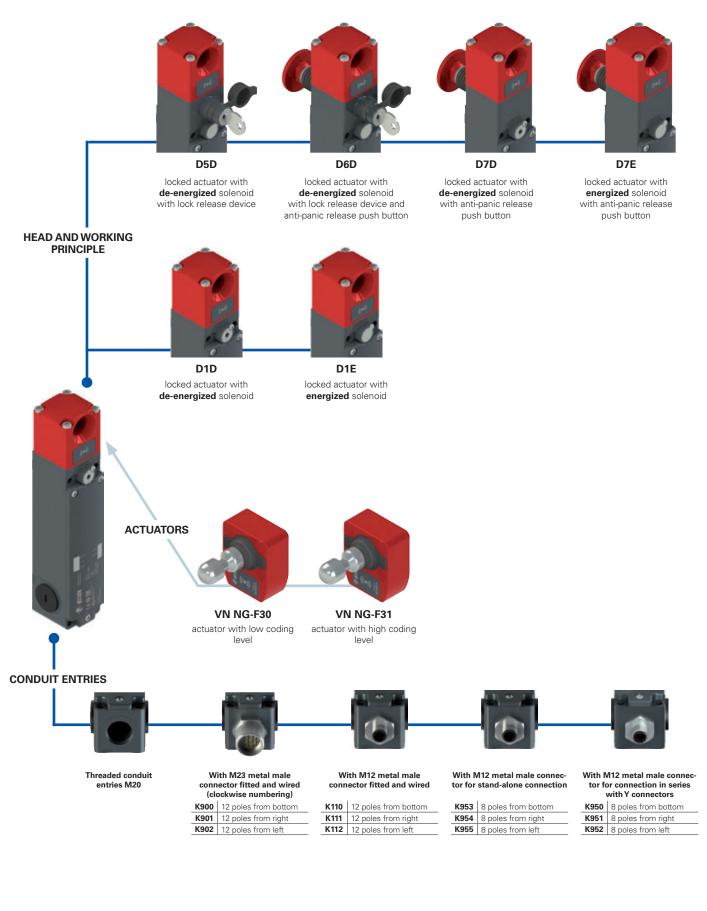


On request the switch can be provided with EDM (External Device Monitoring) so that the switch itself verify the integrity of the devices connected to the safe outputs. These

devices, (typically relays or contactors) provide a feedback signal at the EDM input that verify the consistency of the received signal with respect to the state of the safe outputs.

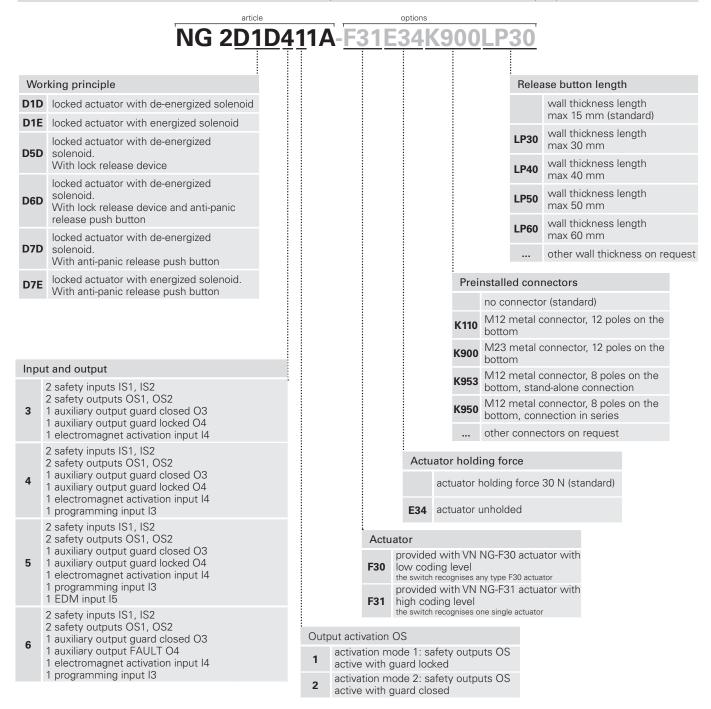


Selection diagram



product optionaccessory sold separately

Code structure



Actuator code structure



Actuator

F30 actuator with low coding level the switch recognises any type F30 actuator

actuator with high coding level

F31 actuator with high coding level the switch recognises one single actuato

RFID Safety switch with solenoid NG series



Main data

- Activation without contact using RFID technology
- Actuator coded with a digital code
- Actuator holding force 7500 N
- SIL 3/ PL e/ Cat. 4 with one single device
- Metal housing, three M20 cable inlets
- IP67 and IP69K protection degree
- Versions with lock release and anti-panic release button
- PL e also connected in series with up to 32 devices
- Signalling LEDs

Markings and quality marks:



Approval UL: E131787 Approval TÜV SÜD: Z10 15 01 75157 005 Approval EAC: RU C-IT ДМ94.В.01024

In conformity with standards:

EN ISO 14119, EN 60947-5-3, EN 60947-1, IEC 60204-1, EN 60204-1, EN ISO 12100, IEC 60529, EN 60529, EN 61000-6-2, EN 61000-6-3, BG-GS-ET-19, IEC 61508-1, IEC 61508-2, IEC 61508-3, IEC 61508-4, SN 29500, EN ISO 13849-1, EN ISO 13849-2, EN 62061, EN 61326-1, EN 61326-3-1, EN 61326-3-2, ETSI 301 489-1, ETSI 301 489-3, ETSI 300 330-2, UL 508, CSA 22.2 No.14

In conformity with requirements requested by:

Machinery Directive 2006/42/CE EMC Directive 2004/108/CE R&TTE Directive 1999/05/EC FCC Part 15

Connection terminals

Connection system: PUSH-IN type with spring Cross section of solid and flexible leads with tips: min 1 x 0.34 mm² (1 x AWG 24) max 1 x 1.5 mm² (1 x AWG 16) Cross section of leads with pre-insulated tips: min 1 x 0.34 mm² (1 x AWG 24) max 1 x 0.75 mm² (1 x AWG 18) Cable stripping length (x): min: 8 mm max: 12 mm

Technical data

Housing Metal housing and head, coated with baked pow Three threaded cable inlets: Protection degree:	wder. M20x1.5 IP67 according to EN 60529 IP69K according to ISO 20653 with cable clamp having equal or higher protection degree
General data SIL level (SIL CL): Performance Level (PL): Safety category: Interlocking device with guard locking, non-contact, Coding level according to EN ISO 14119:	up to SIL 3 according to EN 62061 up to PL e according to EN ISO 13849-1 up to 4 according to EN ISO 13849-1 coded: type 4 according to EN ISO 14119 low with actuator F30 high with actuator F31
Safety parameters: MTTF.: PFH.: DC: Ambient temperature: Maximum activation frequency with	1883 years 8,07 E-10 High -20°C +50°C
actuator lock and release: Mechanical endurance: Max actuating speed: Min. actuating speed: Maximum force before breakage F _{1max} Maximum holding force F _{2h} Maximum play of locked actuator:	600 operation cycles ¹ /hour 1 million of operations cycles ¹ 0.5 m/s 1 mm/s 9750 N according to ISO 14119 7500 N according to ISO 14119 4 mm
Extraction force of released actuator: (1) One operation cycle means two movements, one to close and standard.	$30\ \text{N}$ d one to open contacts, as foreseen by EN 60947-5-1

Electrical data of IS1/IS2/I3/I4/I5/EDM inputs

Rated operation voltage Ue1:	24 Vdc
Rated absorbed current:	5 mA

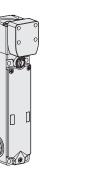
Electrical data of OS1/OS2 safety outputs

Rated operation voltage Ue1:	24 Vdc			
Type of output:	OSSD type PNP			
Maximum current for le1 output:	0.25 A			
Minimum current for le1 output:	0.5 mA			
Category of use:	DC13; Ue=24 Vdc, Ie=0.25 A			
Short-circuit detection:	Yes			
Protection against overcurrent:	Yes			
Internal self-resetting protection fuse:	1.1 A			
Time for deactivation impulses on safe of	putputs: < 300 µs			
Maximum capacity admitted between output and output: < 200 nF				
Maximum capacity admitted between o	utput and earth: < 200 nF			

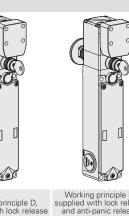
Electrical data of O3/O4 signalling outputs Rated operation voltage Ue1: Type of output: Maximum current for le1 output: Category of use: Short-circuit detection: Protection against overcurrent: Internal self-resetting protection fuse:	24 Vdc PNP 0.1 A DC12; Ue=24 Vdc, Ie=0.1 A No Yes 1.1 A
RFID sensor data Assured operating distance S _{ao} : Assured release distance S _{ar} : Rated intervention distance S _n : Repeatability precision: Differential travel: Maximum switching frequency:	2 mm 4 mm (actuator not locked) 10 mm (actuator locked) 2.5 mm \leq 10 % S \leq 20 % S ⁿ _n 1 Hz
Electrical data Rated operation voltage Ue: Operation current at Ue voltage: - minimum: - with electromagnet activated: - with electromagnet activated and all outputs a Rated insulation voltage Ui: Thermal current Ith: Rated impulse withstand voltage U _{imp} : External protection fuse: Overvoltage category: Electrical life: Solenoid insertion ratio: Electromagnet consumption:	24 Vdc ±10% SELV 40 mA 0.4 A at maximum power: 1.2 A 32 Vdc 0,25 A 1.5 kV 1.5 kV 1.5 A type F III 1 million operation cycles 100% ED 9 W



Switch with actuator selection table









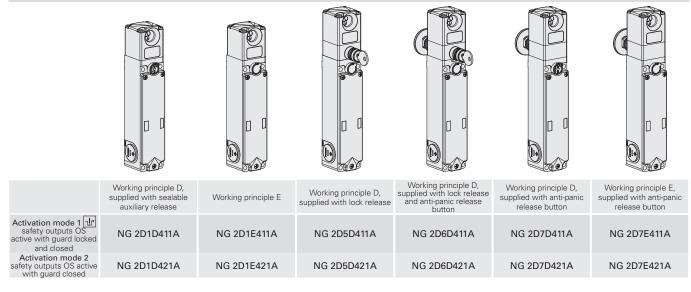


	Working principle D with sealable auxiliary release device	Working principle E	Working principle D, supplied with lock release	Working principle D, supplied with lock release and anti-panic release button	Working principle D, supplied with anti-panic release button	Working principle E, supplied with anti-panic release button
Activation mode 1 1 safety outputs OS active with guard locked and closed	NG 2D1D411A-F3•	NG 2D1E411A-F3•	NG 2D5D411A-F3•	NG 2D6D411A-F3•	NG 2D7D411A-F3•	NG 2D7E411A-F3•
Activation mode 2 safety outputs OS active with guard closed	NG 2D1D421A-F3•	NG 2D1E421A-F3•	NG 2D5D421A-F3•	NG 2D6D421A-F3•	NG 2D7D421A-F3•	NG 2D7E421A-F3•

For EDM models change n. 4 with n. 5 in the codes above. Example: NG 2D1D411A-F3• → NG 2D1D511A-F3•

Switch selection table

Legend: <u>u</u> interlocking device with guard locking monitored according to EN ISO 14119



For EDM models change n. 4 with n. 5 in the codes above. Example: NG 2D1D411A \rightarrow NG 2D1D511A

Actuator selection table



Type of coding	according to ISO 14119	Article
coded	low	VN NG-F30
univocally coded	high	VN NG-F31

The RFID technology featured in the NG series devices allows them to be used in a wide

Legend: It interlocking device with guard locking monitored according to EN ISO 14119

variety of applications. Pizzato Elettrica makes two different versions of actuators available in order to best suit specific requirements. The type F30 actuators are all coded with the same code. This implies that a device associated with a type F30 actuator can be activated by means of other type F30 actuators.

The type F31 actuators are always coded differently. This implies that a device associated with a type F31 actuator can only be activated by one specific actuator. Another F31 type actuator will not be recognised until a new association procedure is carried out (reprogramming). After reprogramming, the old F31 actuator will no longer be recognised.

Data type approved by UL

Utilization categories: 24 Vdc, 0,25 A (resistive load)

Input supplied by Class 2 Source or limited voltage limited energy

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

Data type approved by TÜV SÜD

Protection degree: IP67, IP69K Working temperature: -20°C...+50°C Storage temperature: -40°C...+75°C PL, Category: PL e, Cat 4. SIL: SIL 3 / SIL CL 3

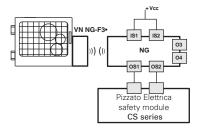
In conformity with standards: 2006/42/EC, EN 60947-1/A1:2011, EN 60947-5-2/A1:2012, EN 60947-5-3:2013, EN 14119:2013, EN 61508-1:2010 (SIL 3), EN 61508-2:2010 (SIL 3), EN 61508-3:2010 (SIL 3), EN 61508-4:2010 (SIL 3), EN 62061/A1:2013 (SIL CL 3), EN ISO 13489-1: 2008 (PL e, Cat 4).

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

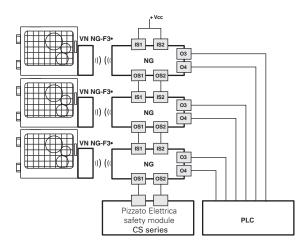
Please contact our technical service for the list of approved products.

Complete safety system

The use of complete solutions and heads provides the customer with assurance of electrical compatibility between the NG series switch and the Pizzato Elettrica safety modules, guaranteeing greater reliability. In fact, these sensors have been checked for operating with the modules specified in the table on the side.

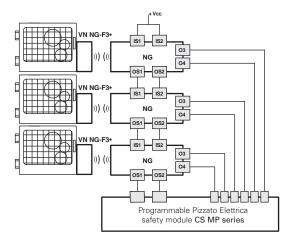


The NG series switch can be used individually, prior evaluation of the safe outputs by means of a Pizzato Elettrica safety module (see table for safety modules to be combined).



Possible connection in series of several switches in order to simplify the safety system wiring, prior evaluation of the outputs of the last switch in the chain by means of a Pizzato Elettrica safety module (see table for safety modules to be combined). Each NG series switch is provided with two signalling outputs which are activated when the guard is closed (O3) or locked (O4). This piece of information can be managed by a PLC, depending on the specific requirements of the system installed.

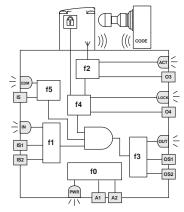
	Compatible safety	Safety module output contacts		
Switches	modules	Safety instantaneous contacts	Safety delayed contacts	Signaling contacts
	CS AR-05••••	3NO	/	1NC
	CS AR-06••••	3NO	/	1NC
	CS AR-08••••	2NO	/	/
NG 2•••4•1A	CS AT-0••••	2NO	2NO	1NC
	CS AT-1••••	3NO	2NO	/
	CS MP•••••	See the General Catalog		alog
	CS MF•••••	See the General Catalog		



Possible connection in series of several switches in order to simplify the safety system wiring, prior evaluation of the outputs of the last switch in the chain by means of a Pizzato Elettrica CS MP safety module, which allows management of the safety function as well as the signalling function.

The above examples refer to applications with NG 2•••4•1A.

Internal diagram



The diagram on the side represents the 6 logic functions which interact inside the device.

Function f0 is a global function which deals with the device power supply and the internal tests which it cyclically undergoes.

The task of function f1 is to evaluate the status of the device inputs, whereas function f2 checks the presence of the actuator inside the switch intervention areas.

Function f4 checks the actuator lock condition.

Function f3 is intended to activate or otherwise the safe outputs and check for any faults or short circuits in the outputs.

In EDM versions function f5 checks the consistency of the EDM signal during the change of status of the safe outputs. The macro function that combines the functions described above does enable the safe outputs only in the presence of active inputs, the actuator

LEDsFunctionPWRpower supply/self-diagnosisINsafe input statusOUTsafe output status

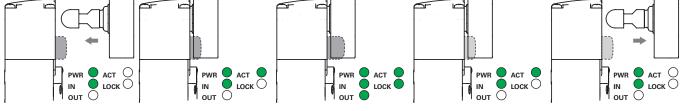
- ACT actuator status
- LOCK actuator lock status
- EDM input status

(version NG 2D••5•1A)

into the safe area and the locking of the same, for switches with mode 1. For switches with mode 2, safe outputs are activated in the presence of active inputs and actuator in the safe zone.

The status of each function is displayed by the corresponding LED (PWR, IN, OUT, ACT, LOCK, EDM), in such a way that the general device status becomes immediately obvious to the operator.

Activating sequence (activation mode 1)

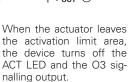


The switch is supplied with power (PWR LED on, green), the IS1 and IS2 inputs are enabled (IN LED on, green), the OS1 and OS2 safety outputs are disabled (OUT LED off). The actuator is outside the activation area (ACT LED off).

When the actuator is brought inside the safe activation area (dark grey area), the switch turns on the ACT LED (green). In this position, the O3 doorclosed signalling output is activated. The actuator is not locked (LOCK LED off).

The I4 input can be used to lock the actuator (LOCK LED on, green). The OS1 and OS2 safe outputs are enabled (OUT LED on, green). The O4 signalling output is activated at the same time. The safe activation area is extended in order to allow greater play for the actuator.

The I4 input can be used to unlock the actuator (LOCK LED off). The switch disables the OS1 and OS2 safety outputs and turns off the OUT LED. The O4 signalling output is deactivated at the same time. The safe activation area returns to the initial values.



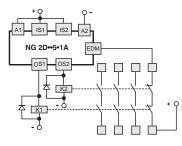
Activating sequence (activation mode 2)

Unlike the above here safety outputs OS1, OS2 are activated when the actuator is detected and deactivated when the actuator is no more detected.

Operation status

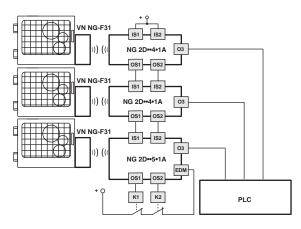
PWR LED	IN LED	OUT LED	ACT LED	LOCK LED	EDMª LED (a)	Device status	Description
\bigcirc	\bigcirc	0	\bigcirc	\bigcirc	\bigcirc	OFF	Device switched off.
						POWER ON	Internal tests on activation.
•	\bigcirc	0	*	*	•	RUN	Device with safe inputs not active.
		*	*	*	*	RUN	Activation of safe inputs.
•		0	*	*	*	RUN	Non-coherence of safe inputs. Recommended action: check for presence and/or wiring of inputs.
•	*	*	•	*	*	RUN	Actuator in safe area. O3 signalling output active.
•	*	*	•	•	0	RUN	Actuator in safe area and locked; O3 and O4 outputs active.
•	•	•	•	•	0	RUN	Activation mode 1 Activation of the IS1 and IS2 safe inputs. Actuator in safe area and locked. O3, O4, OS1 and OS2 out- puts active.
•	•	•	•	*	0	RUN	Activation mode 2 Activation of the IS1 and IS2 safe inputs. Actuator in safe area. 03, OS1, OS2 outputs active.
•	*		*	*	*	ERROR	Error on safe outputs. Recom- mended action: check for any short circuits between the outputs, out- puts and earth or outputs and pow- er supply, then restart the device.
•	0	0		0	0	ERROR	Actuator detection error. Check for physical integrity of the device, if faulty replace the entire device. If undamaged, realign the actuator with the switch and restart the device.
•	0	0	0	0	0	ERROR	Internal error. Recommended action: restart the device. If the fault persists, replace the device.
•	*	0	*	*	•	RUN	EDM signal active (external relay $\ensuremath{OFF}\xspace)^a$
•	•	•	•	•	0	RUN	EDM signal inactive (external relay ON) ^a
•	\bigcirc	0	0	0	ê	ERROR	Error in EDM function ^a
				<u>_</u>			

External Device Monitoring



The NG 2D••5•1A version maintains the safety and operating characteristics of the NG series, and allows the control of the NC contacts of contactors or of forcedly guided relays, which are controlled by the safety outputs of the switches. As an alternative to relays or contactors, it is possi-

ble to use Pizzato Elettrica's expansion modules type CS ME-03. This check is performed by monitoring the EDM input (External Device Monitoring according to EN 61496-1) of the switch.



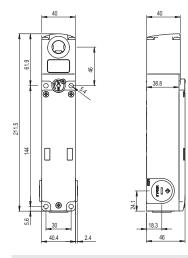
This model, having safety inputs IS, can be connected at the end of a series of NG switches, maximum 32 devices, while maintaining the maximum safety levels PL e in conformity with EN ISO 13849-1 and SIL 3 according to EN 62061. This solution avoids the use of a safety module connected to the last device of the chain.

Legend: ○ = off ● = on ● = blinking ● = alternate colours ★ = indifferent (a) Available only on NG 2D••5•1A

Dimensional drawings

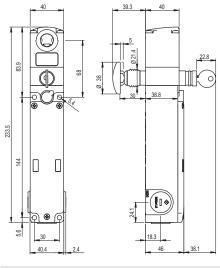
Switch NG 2D1D••1A

Working principle D, supplied with sealable auxiliary release and without actuator

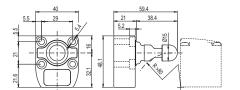




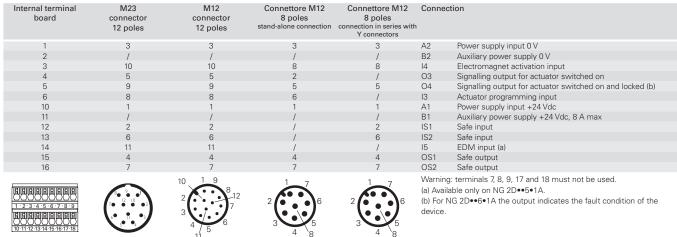
Working principle D, supplied with lock release, anti-panic release button and without actuator



Actuator VN NG-F3•



Internal connections

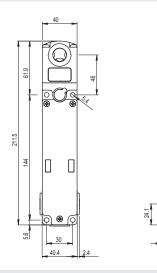


Switch NG 2D1E••1A

Working principle E, supplied without actuator

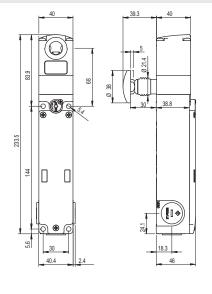
38.8

46



Switch NG 2D7D••1A

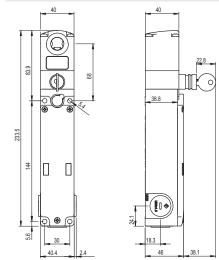
Working principle D, supplied with anti-panic release button and without actuator



All measures in the drawings are in mm

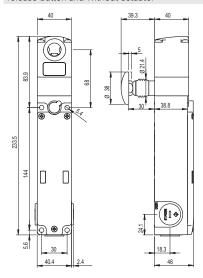
Switch NG 2D5D••1A

Working principle D, supplied with lock release and without actuator



Switch NG 2D7E••1A

Working principle E, supplied with anti-panic release button and without actuator

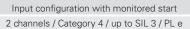


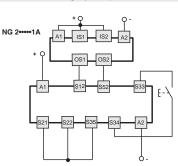
→ 2D and 3D files available on www.pizzato.com



Wiring with safety modules

Wiring with safety modules CS AR-08 ••••

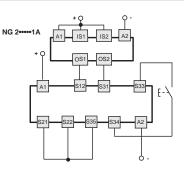




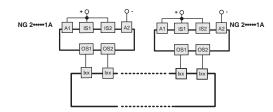
Input configuration with manual start (CSAR-05••••) and monitored start (CS AR-06••••) 2 channels / Category 4 / up to SIL 3 / PL e

Wiring with safety modules CS AR-05•••• / CS AR-06•••• Wiring with safety modules CS AT-0•••• / CS AT-1••••

> Input configuration with monitored start 2 channels / Category 4 / up to SIL 3 / PL e



Wiring with safety modules CS MF•••••, CS MP••••• The connections vary according to the program of the module Category 4/ up to SIL 3 / PL e



Stickers for anti-panic release button

PUSH TO WX-T

Polycarbonate yellow adhesive, rectangular 300x32 mm, red writing. Applied on the jamb internal part it helps finding the emergency release push button.

Article	Description
VF AP-A1AGR01	PREMERE PER USCIRE
/FAP-A1AGR02	PUSH TO EXIT
/FAP-A1AGR04	ZUM OFFNEN DRUCKEN
/FAP-A1AGR05	POUSSER POUR SORTIR
/FAP-A1AGR06	PULSAR PARA SALIR
/FAP-A1AGR07	НАЖАТЬ ДЛЯ ВЫХОДА
/FAP-A1AGR08	NACISNĄĆ ABY WYJŚĆ
/FAP-A1AGR09	PRESSIONAR PARA SAIR

R

Article

VF KLB300

Accessories

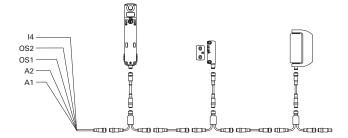
Description Set of 2 locking keys

> Extra copy of the locking keys to be purchased if further keys are needed (standard supply 2 units). All switches keys have the same code. Other codes on request.

Connection in series

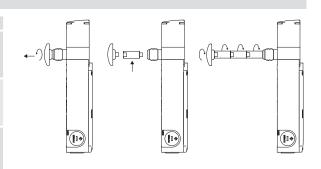
To simplify the connection in series we have available M12 connectors that allow complete wiring.

This solution greatly reduces the installation time, while maintaining the highest level of security PL e and SIL 3.



Extensions for release push-button

Article	Description	Drawing
VN NG-LP30	Metal extension for release push-button. For max wall thickness of 30 mm.	
VN NG-LP40	Metal extension for release push-button. For max wall thickness of 40 mm.	
VN NG-LP50	Metal extension for release push-button. For max wall thickness of 50 mm.	
VN NG-LP60	Metal extension for release push-button. For max wall thickness of 60 mm.	



Metal extensions can be combined together until the required length is obtained. Do not exceed an overall length of 500 mm between the release button and the switch.



General Catalog



Production program



EROUND brochure



LIFT General Catalog



DVD



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