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Nemo SX - Multifunction control module

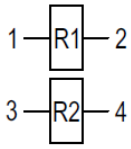
Cat. N°: SXM0C1

Contents Pages

1. DESCRIPTION - USE

. Module dedicated to Nemo SX System.
. Enables to remotely command different electrical loads and motor driven control modules of modular devices (MCBs, RCCBs, RCBOs...) or power devices (e.g. MCCBs...).
- contacts type (NO or NC contacts)
- working method (maintained or momentary contact)

Symbol:



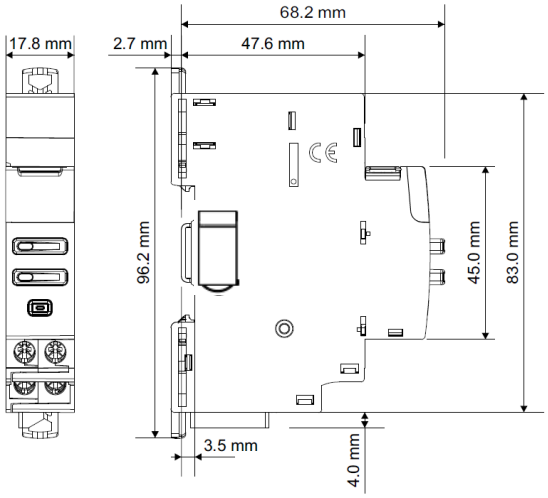
2. RANGE

. Cat. n° SXM0C1: Universal Control Module, with 2 configurable relays 250 V~ -6 A contacts

Width:

. 1 module. 17,8 mm width.

3. OVERALL DIMENSIONS



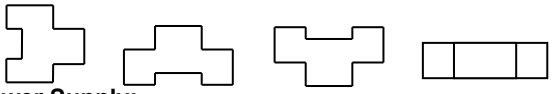
4. PREPARATION -CONNECTION

Fixing:

. On symmetric rail EN/IEC 60715 or DIN 35 rail

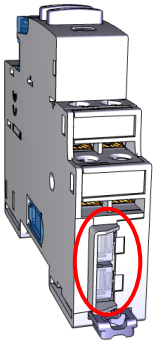
Operating positions:

. Vertical, Horizontal, Upside down, On the side

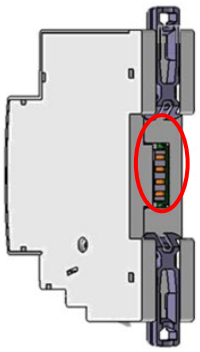


Power Supply:

. Mandatory in 12 VDC via the specific Power supply module Cat n°SXAA230
. Two ways:
via specific communication patch cords (cat. nos SXAC250/500/1000) to connect at the downstream through dedicated ports



via specific communication rails (cat. nos SXAR18/24/36) to connect at the rear through dedicated connectors.



4. PREPARATION –CONNECTION *(continued)*

Terminals:
. Terminal depth: 8 mm.
. Stripping length: 8 mm

Screw head:
. Mixed, slotted and Pozidriv n°1 (UNI7596 type Z1).

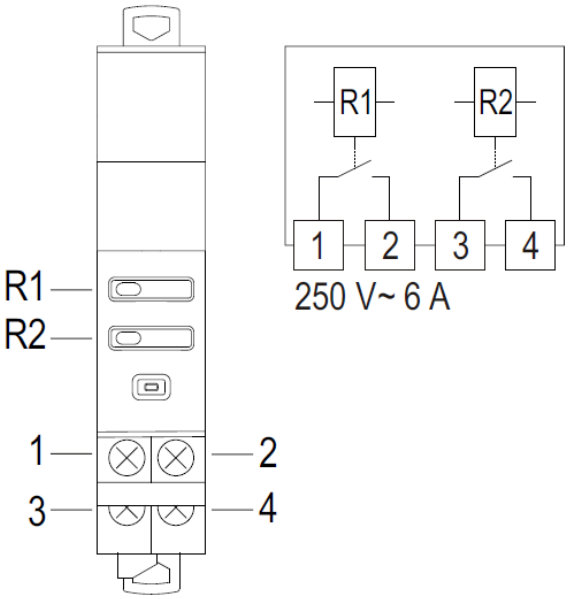
Recommended tightening torque:
. 1 Nm.

Recommended tools:
. For the terminals: Pozidriv n°1 or flat screwdriver 4 mm.
. For fixing: flat screwdriver 5.5 mm (6 mm maximum).

Conductor type:

	Copper cable	
	Without ferrule	With ferrule
Rigid Cable	**1 x 0,5 mm² to 1,5 mm² 2 x 1,5 mm²**	-
Flexible Cable	**1 x 0,5 mm² to1,5 mm² 2 x 1,5 mm²**	**1 x 0,5 mm² to 1,5 mm² 2 x 1,5 mm²**

Wiring diagrams:

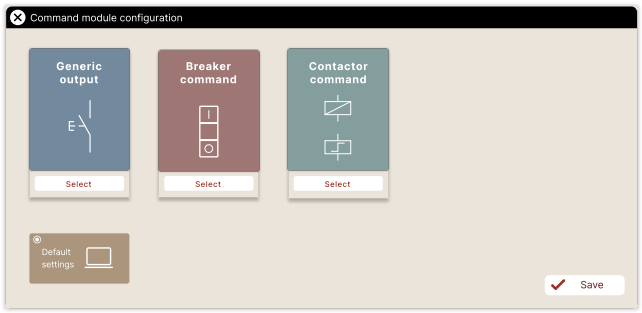


. Pushbutton R1: controls the relay between terminals 1 and 2
. Pushbutton R2: controls the relay between terminals 3 and 4
. Both relays are configurable. Refer to § “Module Configuration”

4. PREPARATION –CONNECTION *(continued)*

Module configuration:
. Configuration is possible remotely, via EMS BTDIN Configuration software (**module firmware version ≥ 3.0.2** [production date ≥ 18W39] **& Configuration software ≥ 2.00.00).**.

Configuration allows to set:
- Contacts type (NO or NC contacts)
- Working method (maintained or momentary contact)



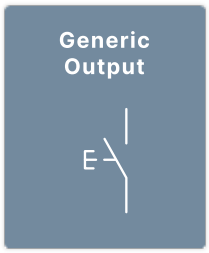
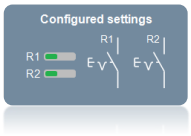
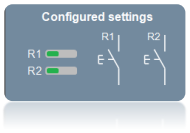
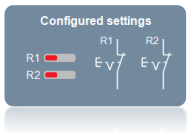
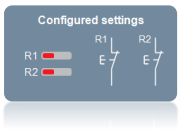
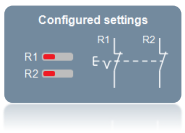
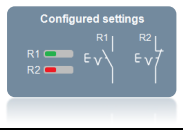
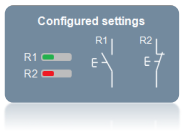
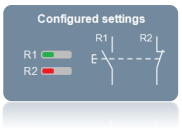
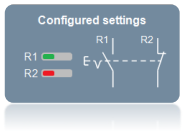
Possible configurations are listed as shown below.

Note:

	NO contact Impulsive command
	NC contact Impulsive command
	NO contact Maintained command
	NC contact Maintained command
- - - - - -	Contacts interlocked
	Motor Driven control module

4. PREPARATION –CONNECTION *(continued)*

Configuration: “Generic” outputs

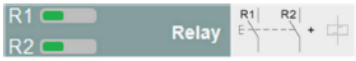
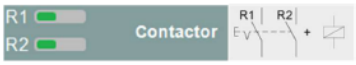
Device	R1	R2	Command Relay 1	Command Relay 2	Relay	Schema
	N O	N O	Hold	Hold	Independent	
	N O	N O	Impulsive	Impulsive	Independent	
	N C	N C	Hold	Hold	Independent	
	N C	N C	Impulsive	Impulsive	Independent	
	N C	N C	Hold	Hold	Locked	
	N O	N C	Hold	Hold	Independent	
	N O	N C	Impulsive	Impulsive	Independent	
	N O	N C	Impulsive	Impulsive	Locked	
	N O	N C	Hold	Hold	Locked	

4. PREPARATION –CONNECTION *(continued)*

Configuration: EMS BTDIN module associated with Motor Controls

Device	Relay 1	Relay 2	Command Relay 1	Command Relay 2	Relay	Schema
Breaker Command	N O	N O	Hold	Hold	Independent	
	N O	N O	Impulsive	Impulsive	Independent	
	N O	N O	Impulsive	Impulsive	Locked	
	N O	N C	Hold	Hold	Locked	

Configuration: EMS BTDIN module associated with contactors or contactors

Device	Relay 1	Relay 2	Command Relay 1	Command Relay 2	Relay	Schema
Contactor Command	N O	N O	Impulsive	Impulsive	Locked	
	N O	N O	Hold	Hold	Locked	

4. PREPARATION –CONNECTION *(continued)*

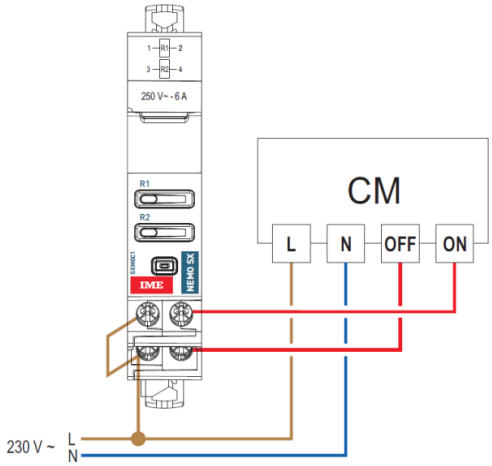
Configuration: EMS BTDIN module with Motor Driven Control

Connection with an associated device:

. Association with Motor Driven Control module with ON/OFF separated commands

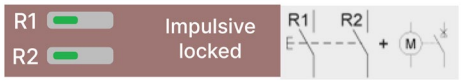
. Nemo SX module must mandatory be configured remotely as shown

. Wiring diagram:

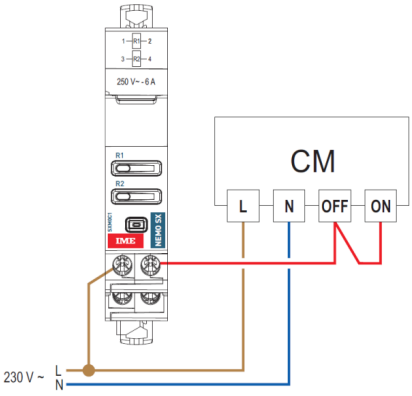


. Association with Motor Driven Control module with ON/OFF cyclic command

. Nemo SX module must mandatory be configured remotely as shown



. Wiring diagram:



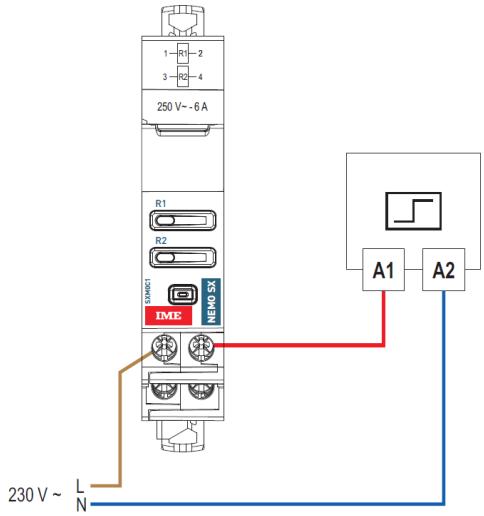
4. PREPARATION –CONNECTION *(continued)*

Configuration: *EMS BTDIN module associated with contactors or contactors*

Association with Latching relay

. Nemo SX module must mandatory be configured remotely as shown

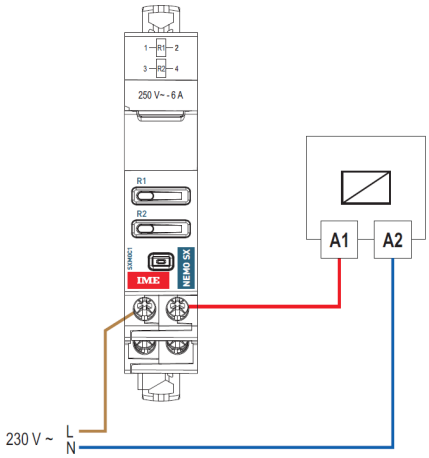
. Wiring diagram:



. Association with Contactors

. Nemo SX module must mandatory be configured remotely as shown

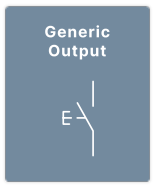
. Wiring diagram:



Note: whatever the configuration given to the Nemo SX Multifunction control module, local command of the module is still possible pushing on the 2 buttons on the front face of the module;

4. PREPARATION –CONNECTION *(continued)*

Connection with an associated device *(continued)*:



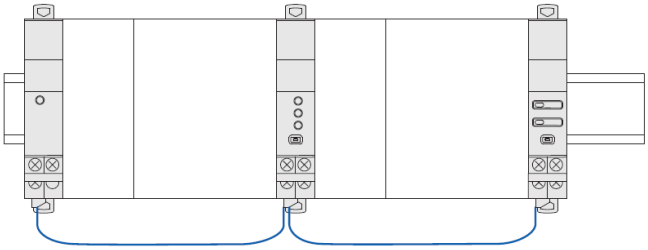
For all possible configurations, consult the table on page. 4. in the configuration section: “Generic” outputs”

Note: local command of the Motor Driven Control module with buttons of the EMS BTDIN Universal control module it is still possible to push on the button of the EMS BTDIN module; however, between 2 orders (open → closed or closed → open) wait at least 5 sec. because of the mechanical actions of the Motor driven control.

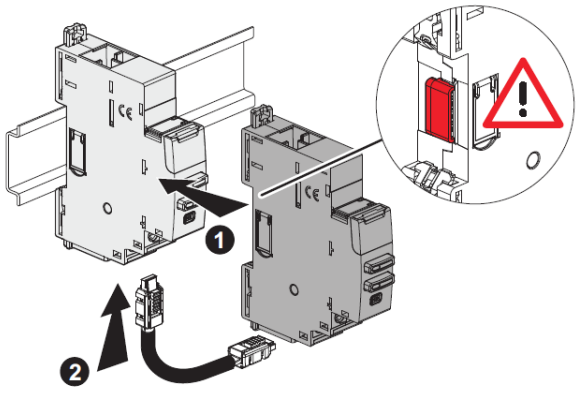
Data connection (Nemo SX modules inter-connection):

. Via specific communication patch cords (cat. nos SXAC250/ 500/1000)

Allow data transmission between the different Nemo SX modules. This type of connection is recommended when there are few Nemo SX modules, distributed all over the enclosure.



Implementing: with this configuration, the plastic protection cover of the backside communication ports on the Nemo SX module must be keep on.

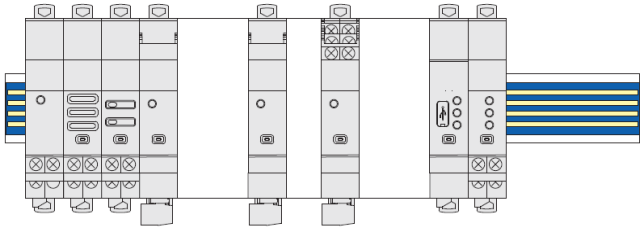


4. PREPARATION –CONNECTION *(continued)*

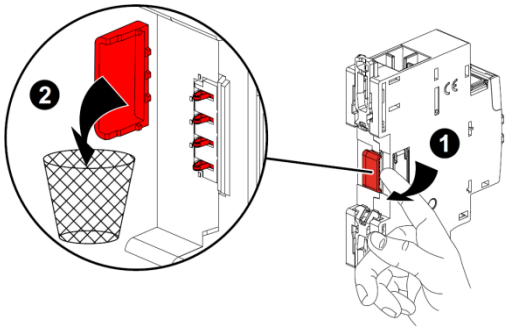
Data connection (Nemo SX modules inter-connection) *(continued)*:

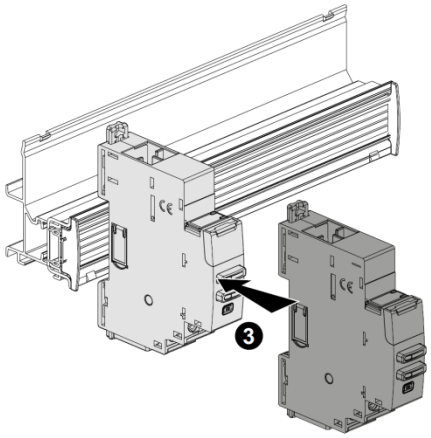
. Via specific communication rails (cat. nos SXAR18/24/36).

. Allow data transmission between the different Nemo SX modules. This type of connection is recommended when there are several Nemo SX modules on the same DIN row.



Implementing: with this configuration, the plastic protection cover of the backside communication ports on the Nemo SX module must be removed.





Note: Sliding the form to the right or left is prohibited.

4. PREPARATION –CONNECTION *(continued)*

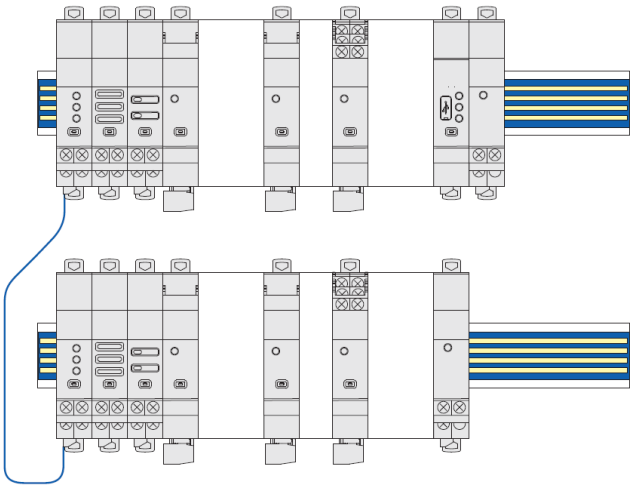
Data connection (Nemo SX modules inter-connection)

(continued):

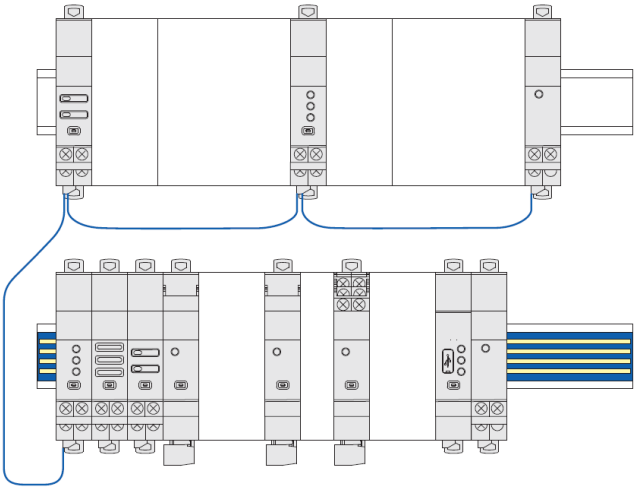
. Via a mix between specific communication patch cords and communication rails in order to create a link between several rows

Two situations:

- Individually connected with communication rails.
  The communication patch cord allows to connect two rows.



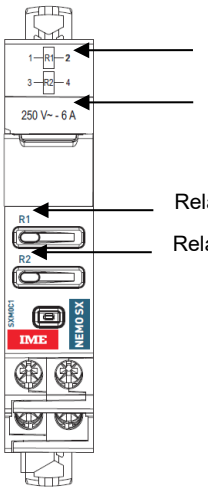
- Individually connected with communication patch cords & communication rail.
  The communication patch cords allow to connect Nemo SX module on a row and to connect two rows.



5. GENERAL CHARACTERISTICS

Front face marking:

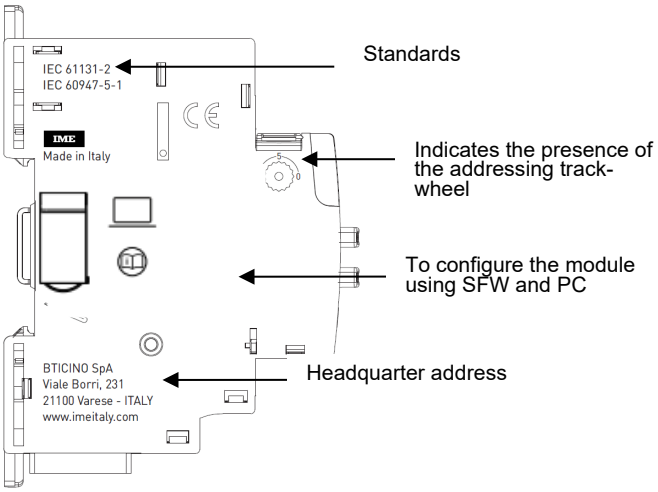
. By permanent ink pad printing (red line) and laser marking



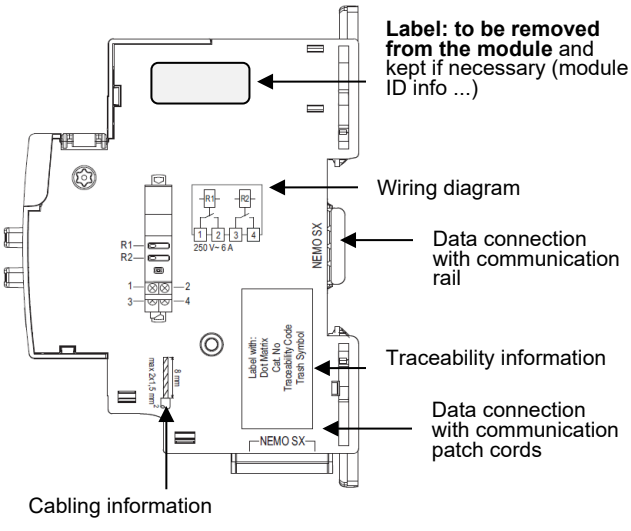
Lateral side marking:

. By laser.

left side: Standard and programming information



right side: cabling and traceability information

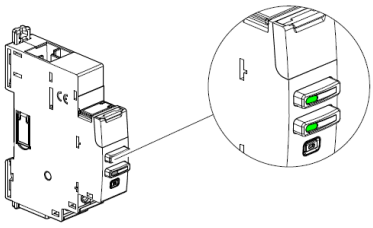


5. GENERAL CHARACTERISTICS *(continued)*

Pushbutton:

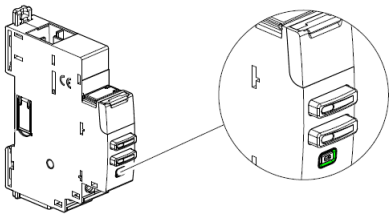
. Equipped with LED with two possible colours:

- Steady green → the corresponding relay is inactive (relay not power supplied)
- Steady red → the corresponding relay is power supplied
- Blinking (red or green) → the Nemo SX universal control module has received a command but not been executed yet. This is the case of programmed activation time-delay (the delay time is settable only with the remote addressing. See §6). The led stay blinking until the command is executed. Then becomes steady red or green according to the state of the relay.



Multi-Functions button:

. Front face button as several functions:



. Give information about the operating state on the module
Possible states:

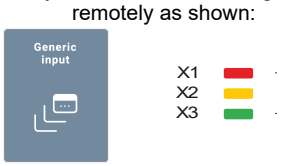
Colour	State	Meaning
red	Slow blinking	Error (e.g. addressing error)
	Fast blinking	No function
	Steady *(pressing the multifunction button longer than 10 sec.)*	Total reset [any firmware updates are preserved]
green	Slow blinking	System process is running. Wait until the Led turns steady
	Fast blinking *(pressing the multifunction button for 5 sec.)*	put in “Stand-by” the Nemo SX module (no remote action and communication available)
	Steady	System OK, connection is running
orange	Slow blinking	Creation of a link with “Link Functionality” procedure *(see next §)*
	Fast blinking	Device’s firmware update in progress
	Steady	Start of FW update or active Link functionality (see next §)

5. GENERAL CHARACTERISTICS *(continued)*

Link Functionality:

. This function allows you to link two Nemo SX modules to create automatic actions that, once programmed, can run independently without a connection to a manager is needed.
The basic rule is the link between an event (circuit breaker that trip, a threshold exceeded, etc.) and an action accordingly (signalling, opening of a circuit by motorized control or contactor, etc.).

Possible associations are:

	Action module	
Event generator	Command: SXM0C1	State: SXMC02
Measure: SX3M63, SXMM63, SXMT63, SXMT125, SXMMT5, SXMR02, SXMR04, SXMR06, SXMR08	✓	✓ Only with the module configured remotely as shown: 
State: SXMC02	✓	✗ It's enough to configure the module (locally or remotely) as ″REPLICA″

Note:
- association can only be of type 1 to 1 (1 event and 1 action).
- modules already associated cannot be used for other associations.
- all the configuring procedure will be done with the Configuration Software (available online for free). *[For more details refer to the Installation Manual of Nemo SX Configuration software]*

Modules compatible with "Link Functionality" feature: firmware versions and production date:

Cat n°	Firmware version	Production date indicated on the label sticked on the side of the module
SX3M63	all firmware versions	any production date
SXMM63	ver. ≥ 2.0.1	date ≥ 18W49
SXMT63	ver. ≥ 2.0.1	date ≥ 18W49
SXMT125	all firmware versions	any production date
SXMMT5	ver. ≥ 2.0.1	date ≥ 18W35
SXMR02	all firmware versions	any production date
SXMR04	all firmware versions	any production date
SXMR06	all firmware versions	any production date
SXMR08	all firmware versions	any production date
SXMC02	ver. ≥ 2.0.2	date ≥ 18W49
SXM0C1	ver. ≥ 3.0.2	date ≥ 18W39
SXV01	ver. ≥ 2.0.4	date ≥ 18W38
SXI485	ver. ≥ 3.0.8	date ≥ 18W31

5. GENERAL CHARACTERISTICS *(continued)*

Relays operating voltage:
. Ue = 250 V ~

Relays rated current:
. In = 6 A @ cosφ = 1

Rated frequency:
. 50/60 Hz with standard tolerances.

Insulation voltage:
. Ui = 400 V

Impulse withstand voltage Uimp:
. Nemo SX ports / Relay terminals:
wave 1,2 / 50 µs: 6 kV
alternate current 50 Hz / 1 min.: 3 kV
. Relay terminal 1 / Relay terminal 2:
wave 1,2 / 50 µs: 4 kV
alternate current 50 Hz / 1 min.: 1,9 kV

Pollution degree:
. 2 according to IEC/EN 60898-1.

Overvoltage category:
. III

Dielectric strength:
. 2500 V

Mechanical endurance:
. Min. 10 x 10^6 operations.

Utilization category:
. AC15: electromagnetic load, according to IEC 60947-5-1

Plastic material:
. Self-extinguishing polycarbonate.
. Heat and fire resistant according to IEC/EN 60695-2-12, glow-wire test at 960°C.
. Classification UL 94 / IECEN 60695-11-10: V1

Ambient operating temperature:
. Min. = -25°C. Max. = +70°C

Ambient storage temperature:
. Min. = -40°C. Max. = +70°C

Protection Index:
. Protection index of terminals against direct contacts:
IP2X (IEC/EN 60529).
. Protection index of terminals against solid and liquid bodies (wired device): IP 20 (IEC/EN 60529).
. Protection index of the front face against solid and liquid bodies: IP 40 (IEC/EN 60529).
. Class II, front panel with faceplate.

5. GENERAL CHARACTERISTICS *(continued)*

Average weight per device:
. 0,065 kg.

Volume when packed:
. 0,21 dm^3.

Consumption:
. Values at 12 VDC

Configuration	W	mA
Stand-by	0,265	22
2 Open contacts	0,265	22
1 Open contact & 1 Closed contact	0,375	31
2 Closed contacts	0,458	38

5. GENERAL CHARACTERISTICS *(continued)*

Load shedding Function:

. Allows to automatically carry out load shedding in case of power demand when a circuit exceeds a threshold.
. Function is implementable using together following Nemo SX modules:
- Multifunction Control module (cat. no SXM0C1) *(see § "Module configuration")*
- Measurement modules (cat. nos SX3M63, SXMM63, SXMT63, SXMT125, SXMMT5, SXMR02, SXMR04, SXMR06, SXMR08)

To set the different parameters it is necessary to use the Nemo SX Configuration software (available online for free)

. Procedure:

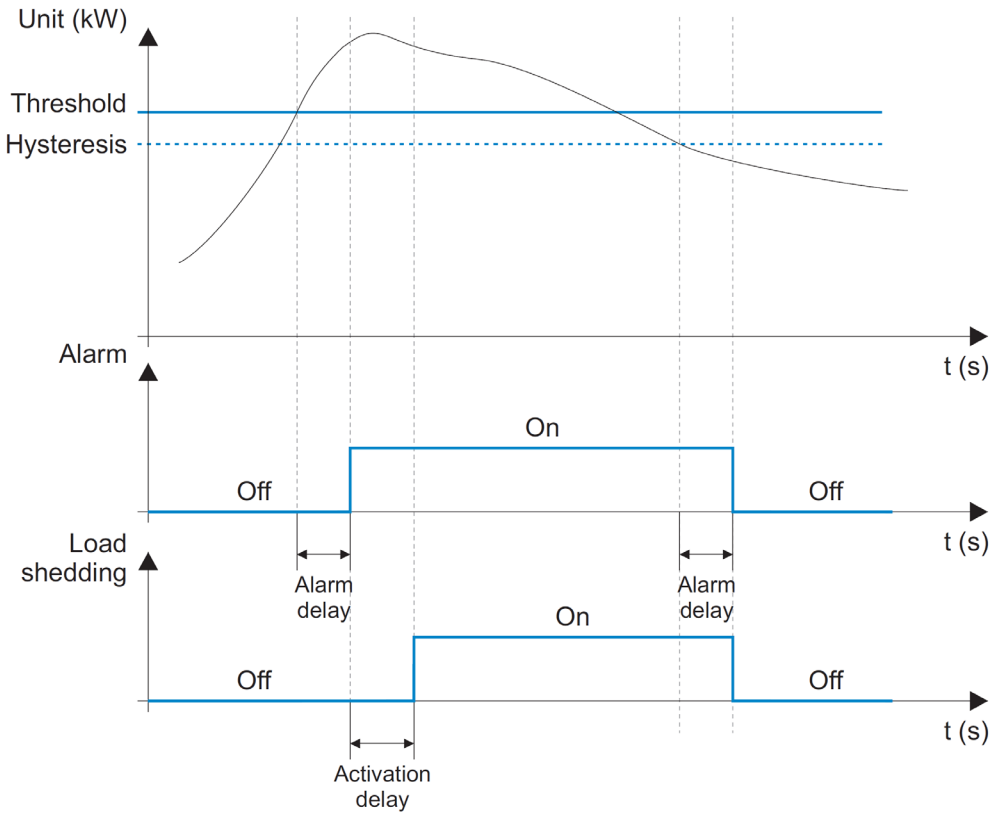
1. Assign the same address to the Nemo SX modules (Multifunction control and Measurement modules) which require to be linked
2. Connect a computer to the Modbus/Nemo SX interface or to the Mini configuration module (according to the system architecture type; see § "System architectures")
3. In the Nemo SX Configuration software pages adjust the parameters:

. In the dedicated page of the Measurement module:

- **Threshold**: value of Total active power (kW) above which procedure starts. *(default value 100 kW)*
- **Hysteresis**: value expressed in % of the threshold under which the alarm is over and the disconnected loads are restored. *(default value 5%, max value 100%)*
- **Alarm delay** (s) - *(default value 1 sec., max. value 30000 sec)*:
  during the activation of an alarm: is the waiting time between the threshold point and the alarm on the EMS bus
  during the de-activation of an alarm: is the waiting time between the hysteresis point and the alarm is deactivation on the EMS bus

. In the dedicated page of the Universal control module:

- **Relay normal state**: the rest position of the relay; normally open (NO) or normally closed (NC).
- **Relay activation:** impulsive or maintained
- **Relay activation time** (s): used for the impulsive work method only; represents the time in which the relay remains in the working position. *(default value 1 sec., max. value 6000 sec)*:
- **Activation delay** (s): waiting time between the alarm on the EMS bus and the action done by the universal control module *(default value 0 sec, max. value 6000 sec)*:



6. SYSTEM ARCHITECTURES

The Nemo SX is a polyvalent system and, according to the needs of the customer, can be set up and/or used as “Stand-alone” or “Supervised” system. Based on this choice the configuration and addressing methods are different.

Four possible architectures are provided:

6.1 Stand-alone system
6.1.1 with local addressing (through the track wheel)
6.1.2 with remote addressing (through a computer)
6.2 Supervised (Computer Supervisory System)
6.2.1 with local addressing
6.2.2 with remote addressing

6.1 Stand-alone system

. **Stand-alone** = autonomous system. To be used by the end-user if it is not necessary to have a computer for the supervision outside the envelope. Everything can be managed on site.

6.1.1 Stand-alone system with local addressing (through the track wheel)

Local addressing advantages:

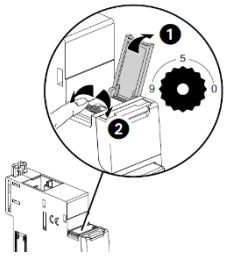
- No configuration software needed to set-up the installation
- **It is not necessary to use a computer to manage settings** (configurations, test, ...) and to use the system (visualize and be alerted, ...). Everything can be done through the Mini configuration module (local display, cat. no SXV01). *[Refer to the technical sheet dedicated to this module for details]*.
- No communication Interfaces or gateways are required.
- Installation can be done without the intervention of a System Integrator

Programming procedure:

. For Nemo SX modules which need some: mandatory through software of configuration for Nemo SX module *(see § ”Module configuration”)*

Addressing procedure:

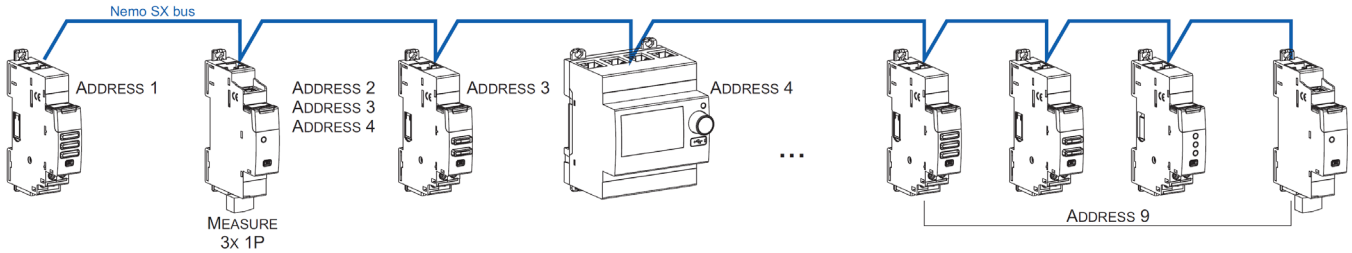
. For all Nemo SX modules: mandatory through the track wheel located on the top upper face of each Nemo SX modules
. Marked from 0 to 9 in order to locally define the Modbus address of the Nemo SX modules



Note for Measure Module “3x single phase”:
This module is to be consider as 3 modules with 3 different Modbus Address. The module takes automatically the two addresses immediately following to the programmed one (e.g. Set to address = 2, Set to the module 2, 3, 4)

Consequences of the local addressing mode (through the track wheel):

. Each device of the system must be addressed.
. Addresses available: from 1 to 9
. Address 0 not permitted
. It is possible to assign to several devices the same address with the purpose of grouping different functions, **because they are related to the same electrical circuit**. For example, it is possible to assign the same address to a multifunction signalling module (cat. no SXMC02), a multifunction control module (cat. no SXM0C1), a measuring module, and so on. In this way on the Nemo SX mini configuration module (local display) the grouped function will be displayed as a unique “device” with all grouped functions. *[Refer to the schemes hereunder]*



Note for the mini configuration module (local display)

. It is necessary to assign the mini configurator a different address from all the other Nemo SX through the programming menu of the device
. The mini configuration module can be placed everywhere in the Nemo SX bus

6. SYSTEM ARCHITECTURES

6.1 Stand-alone system *(continued)*

6.1.2 Stand-alone system with remote addressing (through a computer)

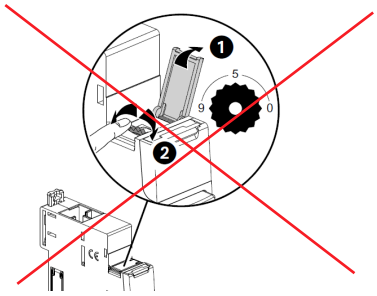
Remote addressing advantages:

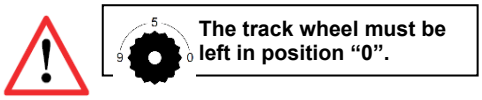
- Whole configuration (addresses and functions) can be set up through the Nemo SX Configuration software
- Configuration software available for free
- **Automatic detection of the Nemo SX modules** installed in the system (characteristics, functions, configuration...)
- **Increased settings possibilities: load shedding function**
- Increased addressing**: up to 30 Modbus addresses in a system**

Programming procedure:

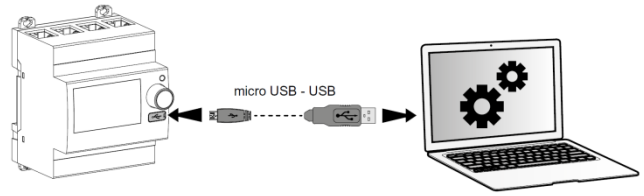
. For Nemo SX modules which need some: mandatory through the configuration software *(see § "Module configuration")*.

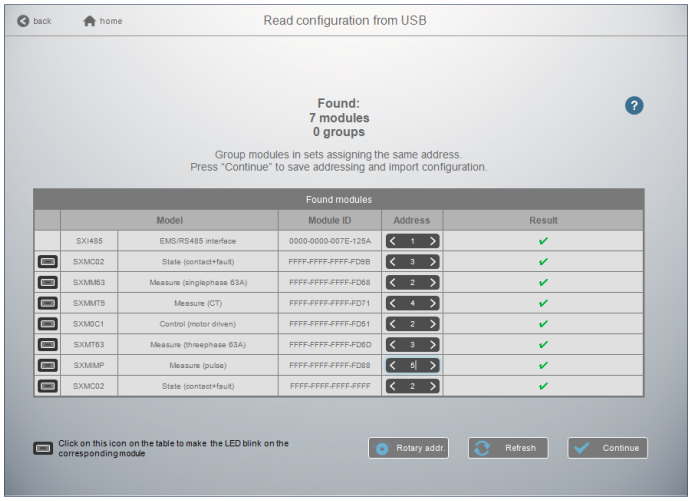
Addressing procedure:





. It is not necessary to assign an address via rotary; **The track wheel must be left in default position "0**".
. All the addressing/configuring procedure will be done with the Configuration Software (available online for free)
. With remote addressing, the software does the automatic detection of modules installed in the system, but the supervision is not possible until the user assigns the remote address and all the characteristics to each module.
Note: it is mandatory to connect the computer to the Mini configuration module with a "type B" micro - USB cable. *[For more details, refer to the technical data sheet of the Mini configuration module Nemo SX]*





Note for Measure Module "3x single phase":
This module is to be consider as 3 modules with 3 different Modbus Address. The module takes automatically the two addresses immediately following to the programmed one (e.g. Programmed address = 12, Addresses of the module 12, 13, 14)

6. SYSTEM ARCHITECTURES

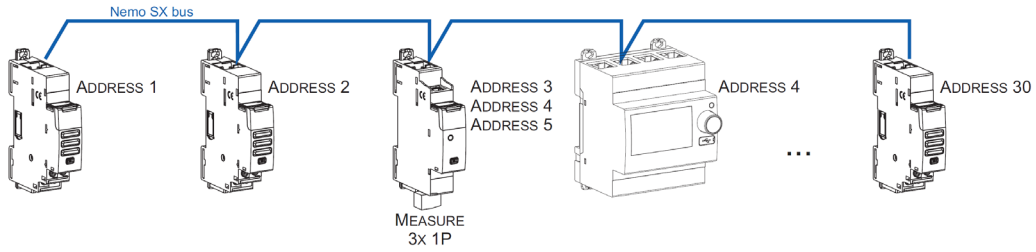
6.1 Stand-alone system *(continued)*:

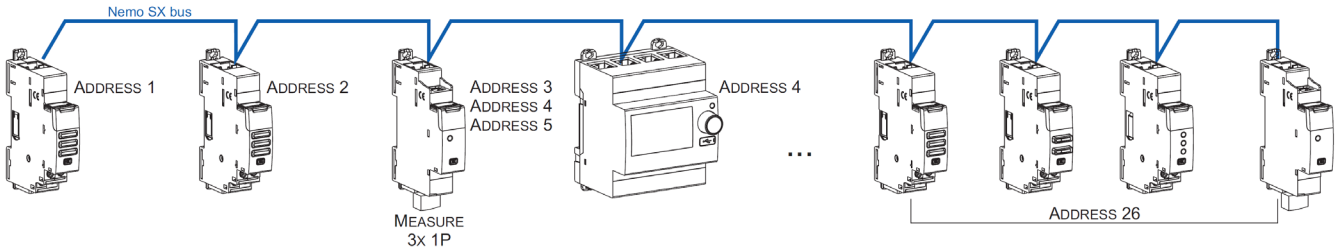
6.1.2 Stand-alone system with remote addressing (through a computer) *(continued)*:

Consequences for the system architecture:

- for 1 mini configuration module (cat. no SXV01)
  - up to **30 Nemo SX modules** (e.g. 30 devices grouped per functions with addresses from1 to 30)

It is possible to assign to several devices the same address with the purpose of grouping different functions, **because they are related to the same electrical circuit**. For example, it is possible to assign the same address to a multifunction signalling module (cat. no SXMC02), a multifunction control module (cat. no SXM0C1), a measuring module, and so on. In this way on the Nemo SX display or in a supervision system the grouped function will be displayed as a unique "device" with all grouped functions. *[Refer to the schemes here under]*





Note for the mini configuration module (local display)
. It is possible to assign it the same address as another Nemo SX
. The mini configuration module can be placed everywhere in the Nemo SX bus

6.2 Supervised system (Computer Supervisory System)

. **Supervised system** = System to be used through a Computer Supervisory System to remotely read data from the Nemo SX devices and/or do operations on these devices (e.g. commands of a motor driven or contactor ...).

6.2.1 Supervised system-with local addressing (through the track wheel)

Local addressing advantages:

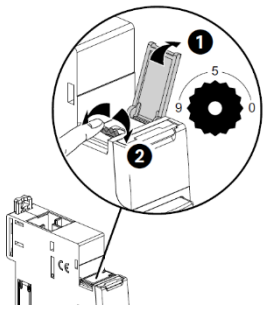
- No configuration software needed to set-up the installation
- Installation can be done without the intervention of a System Integrator

Programming procedure:

. For Nemo SX modules which need some is mandatory through Nemo SX Configuration software *(see § "Module configuration")*

Addressing procedure:

. For all Nemo SX modules: mandatory through the track wheel located on the top upper face of each Nemo SX module



. Marked from 0 to 9 in order to locally define the Modbus address to Nemo SX modules
In this system the Modbus address of a Nemo SX Nemo SX module device or group of modules (several functions) is obtained considering the address of the interface Modbus/Nemo SX Interface as tenth and the address of a device or group of function as unit (e.g. Interface address 1 = 10 → address of module n°5 = Modbus address 15)

Note for Measure Module "3x single phase":
This module is to be consider as 3 modules with 3 different Modbus Address. The module takes automatically the two addresses immediately following to the programmed one (e.g. Programmed address = 12, Addresses of the module 12, 13, 14)

6. SYSTEM ARCHITECTURES *(continued)*

6.2 Supervised system (Computer Supervisory System) *(continued)*

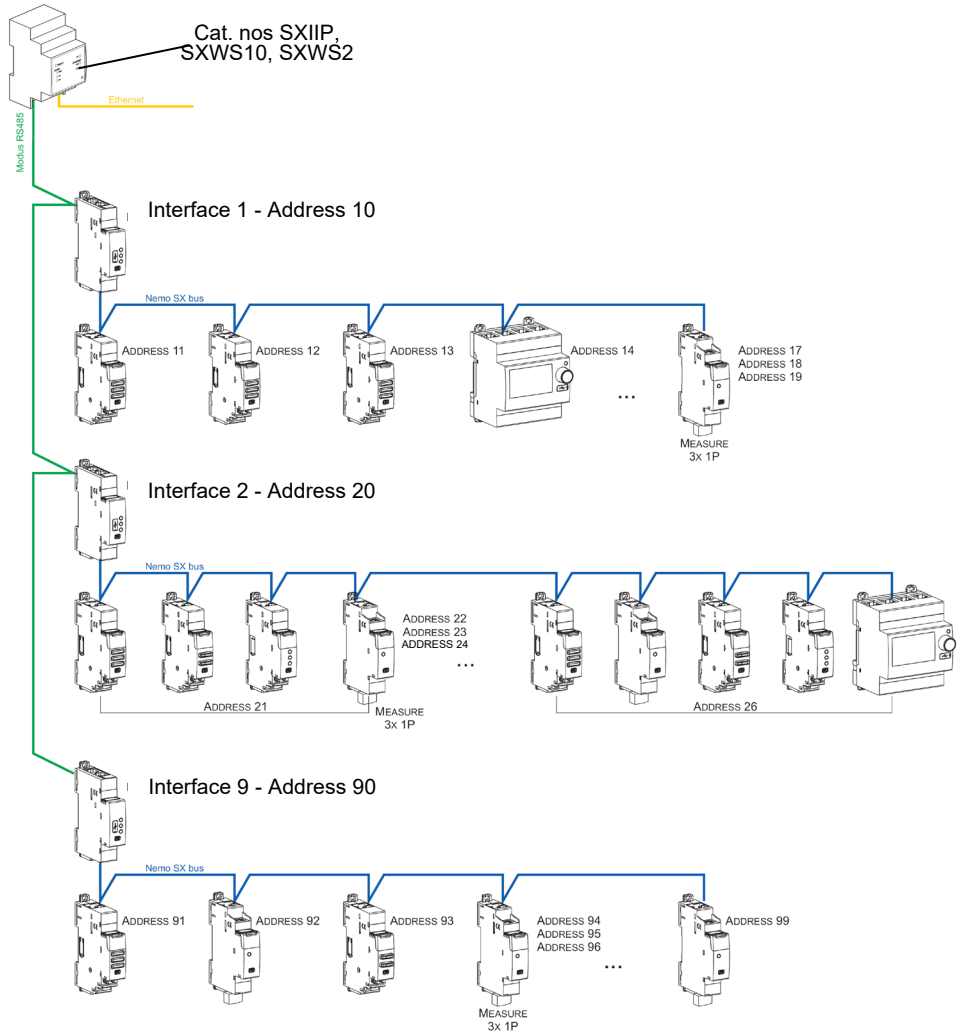
6.2.1 Supervised system-with local addressing (through the track wheel) *(continued)*

Consequences of the local addressing mode (through the track wheel):

. Each device of the system must be addressed.
. Addresses available: from 1 to 9
. Address 0 not permitted

It is possible to assign to several devices the same address with the purpose of grouping different functions, **because they are related to the same electrical circuit**. For example, it is possible to assign the same address to a multifunction signalling module (cat. no SXMC02), a multifunction control module (cat. no SXM0C1), a measuring module, and so on. In this way on the Nemo SX display or in a supervision system the grouped function will be displayed as a unique “device” with all grouped functions. *[Refer to the scheme hereunder]*

Note: In this configuration the Modbus address of a Nemo SX module device or group of modules (several functions) is obtained considering the address of the interface Modbus/Nemo SX Interface as tenth and the address of a device or group of function as unit (e.g. Interface address 1 = 10 and device address = 5 → Modbus address = 15)



Consequences for the system architecture:

- for 1 IP/Modbus gateway (cat. no SXIIP):
  - up to **81 Modbus address**
  - mandatory limit of max. **9 Modbus/Nemo SX interfaces or max. 1000 m of Modbus cable** (cable Belden 9842, Belden 3106A or equivalent) or max. **50 m of Category 6 cable** (FTP or UTP).
- for 1 Modbus/Nemo SX Interface (cat. no SXI485):
  - up to **30 Nemo SX modules** (ex. 30 devices grouped per functions with addresses from1 to 9)

Note: with local addressing, the Modbus/Nemo SX interface, does the automatic detection of modules (characteristics, functions, configuration...)

6. SYSTEM ARCHITECTURES *(continued)*

6.2 Supervised system (Computer Supervisory System) *(continued)*

6.2.2 Supervised system-with remote addressing (through a computer)

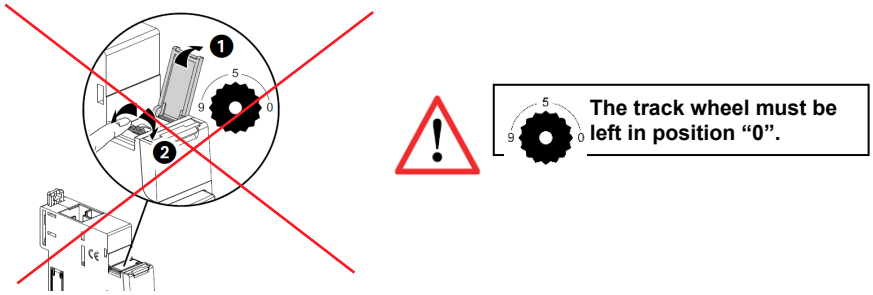
Remote addressing advantages:

- Whole ~~of~~ configuration (addresses and functions) can be done a remotely through the Nemo SX Configuration software
- Configuration software available for free
- **Automatic detection of the Nemo SX modules** installed in the system (characteristics, functions, configuration...)
- **Increased settings possibilities: load shedding function**
- Increased addressing: **up to 32 Modbus/Nemo SX interfaces**
- Increased addressing**: up to 247 Modbus addresses in a system**

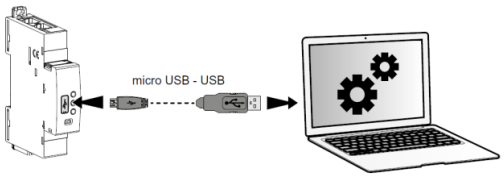
Programming procedure:

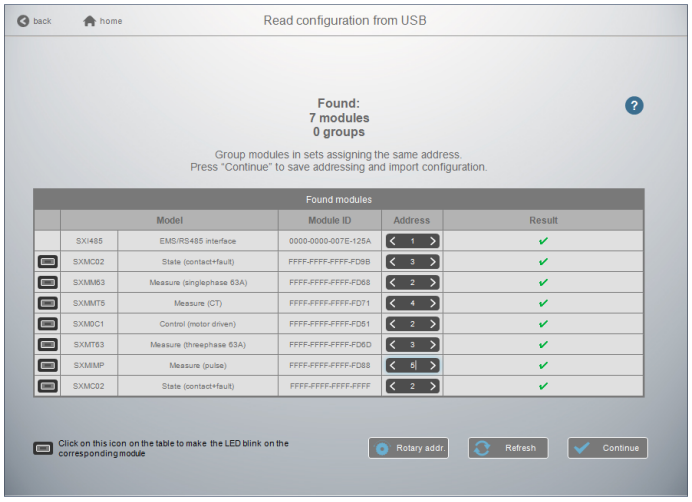
. For Nemo SX modules which need some, via the configuration software *(see § "Module configuration")*.

Addressing procedure:



. It is not necessary to address the Nemo SX modules. **The track wheel must be left in default position "0".**
. All the addressing/configuring procedure will be done with the Configuration Software (available online for free)
. With remote addressing, the software does the automatic detection of modules installed in the system, but the supervision is not possible until the user assigns the remote address and all the characteristics to each module.
Note: it is mandatory to connect the computer to the different Modbus/Nemo SX interface with a "Type B" micro USB - USB cable (one interface at a time). *[For more details, refer to the technical sheet Modbus/Nemo SX interface]*



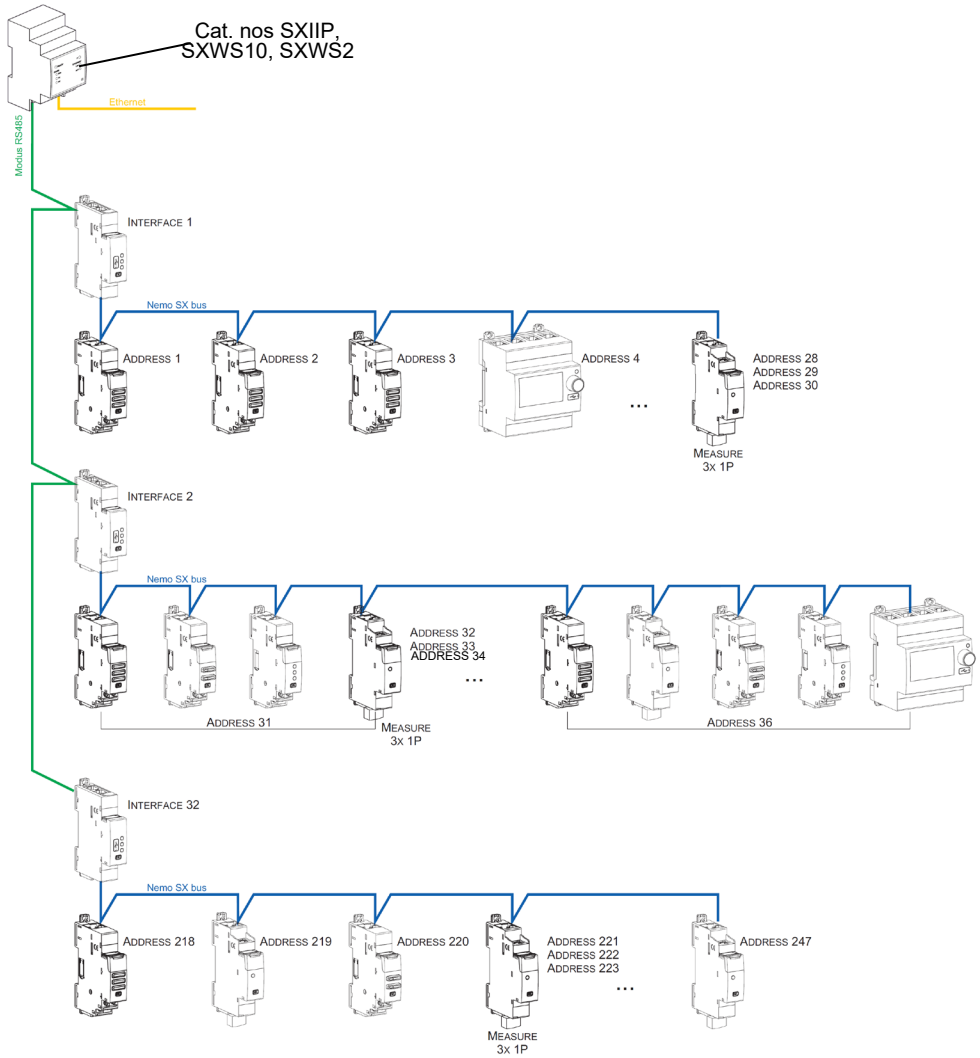


Note for Measure Module "3x single phase":
This module is to be consider as 3 modules with 3 different Modbus Address. The module takes automatically the two addresses immediately following to the programmed one (e.g. Programmed address = 2, Addresses of the module 2, 3, 4)

6. SYSTEM ARCHITECTURES *(continued)*

6.2 Supervised system (Computer Supervisory System) *(continued)*

6.2.2 Supervised system-with remote addressing (through a computer) *(continued)*



Consequences for the system architecture:

- for 1 IP/Modbus gateway (cat. no SXIIP):
  - up to **247 Modbus address**
  - Because of Modbus: mandatory limit of max. **32 Modbus/Nemo SX interfaces** or max. **1000 m of Modbus cable** (cable Belden 9842, Belden 3106A or equivalent) or max. **50 m of Category 6 cable** (FTP or UTP).
- for1 Modbus/Nemo SX Interface (cat. no SXI485):
  - up to **30 Nemo SX modules or grouped modules** (e.g. 30 devices grouped per functions with addresses from1 to 30)

It is possible to assign to several devices the same address with the purpose of grouping different functions, **because they are related to the same electrical circuit**. For example, it is possible to assign the same address to a multifunction signalling module (cat. no SXMC02), a multifunction control module (cat. no SXM0C1), a measuring module, and so on. In this way on the Nemo SX display or in a supervision system the grouped function will be displayed as a unique “device” with all grouped functions. *[Refer to the scheme up here]*

7. COMPLIANCE AND APPROVALS

Compliance to standards:

. Compliance with Directive on electromagnetic compatibility (EMC) n° 2014/30/EU
. Compliance with low voltage directive n° 2014/35/EU.
. Electromagnetic Compatibility:
IEC/EN 61131-2
IEC/EN 60947-5-1

Environment respect - Compliance with EU directives:

. Compliance with Directive 2011/65/EU as amended by Directive 2015/863 (RoHS 2) on the restriction of the use of certain hazardous substances in electrical and electronic equipment.
. Compliance with REACH regulation (1907/2006): at the date of the publication of this document no element of the SVHC substance list (updated on 27/06/2018) is present in these products.
. WEEE directive (2012/19/EU): the sale of this product is subject to a contribution to eco-organisations in each country responsible for managing end-of-life products in the field of application of the European Waste Electronic and Electrical Equipment Directive.

Plastic materials:

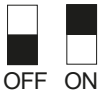
. Halogens-free plastic materials.
. Marking of parts according to ISO 11469 and ISO 1043.

Packaging:

. Design and manufacture of packaging compliant to decree 98-638 of the 20/07/98 and also to directive 94/62/CE.

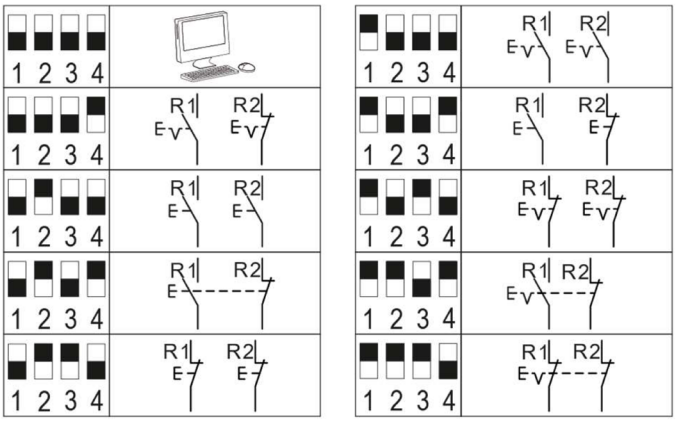
8. ANNEX: configuration with dip switch for the previous version

The black color indicates the position of the dip switch.

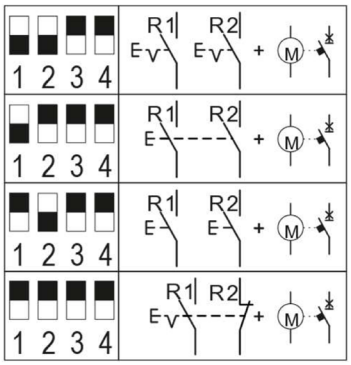


Universal control module

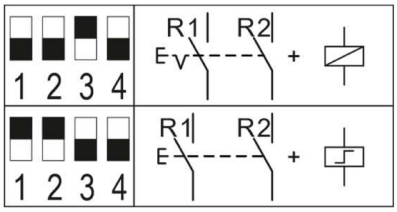
Generic outputs



Associated with Motor driven control

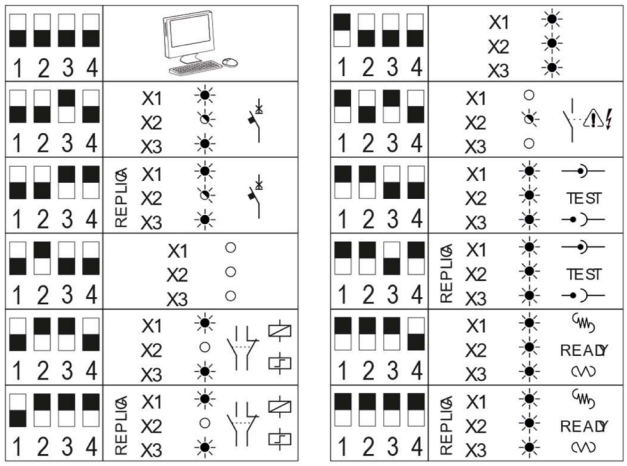


Associated with Latching relays or Contactors



8. ANNEX: configuration with dip switch for the previous version *(continued)*

Universal state module



State and control module for Latching relays and Contactors