

Technical Datasheet nova TS2 / TS4 / TS8

1. Product description



The touch sensors nova TS-e series are available in three key configurations and in two color variations. With up to 8 function touch sensors they allow for following functions.

Functions:

- 2 Touch sensors in the configuration nova TS2.
- 4 Touch sensors in the configuration nova TS4.
- 8 Touch sensors in the configuration nova TS8.
- 8 LED's with free function assignment.
- 1 Labelling field with free labeling option.

There are several LonMark ® and VDI 3813-2 compliant applications available for the touch sensors nova TS. These applications grant the compliance with the GA-efficiency class A to EN 15 323.

The touch sensors nova TS are extensible by the nova touch sensors TS2-e, TS4-e, and TS8-e. This provides expansion capabilities in accordance with the application-specific requirements and applications available for this purpose.

2. Mounting and installation

2.1. Mounting

1. The device is designed for flush- / cavity- wall box mount.
2. The bus cable is connected via spring-loaded terminals.
3. The actuator part interface will be connected via screw terminals.
4. The screw terminals can be removed from actuator part.



The device is designed for safety extra low voltage (SELV).



Installation and assembly of electrical equipment must be carried out only by qualified electricians!



Please observe local standards, guidelines and regulations when planning and installing electrical devices.

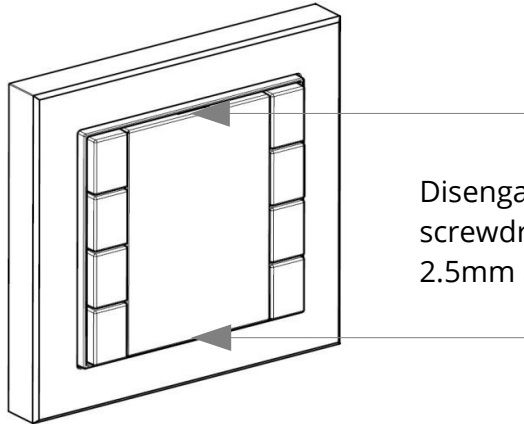


Operate the device only within its specifications.

The device is build up of a network connector and an actuator part. The network connector is inserted into the flush- / cavity- wall box, whereas the actuator part is mounted on the flush- / cavity- wall box by a support ring. For mounting the actuator part has to be disconnected from the support ring.

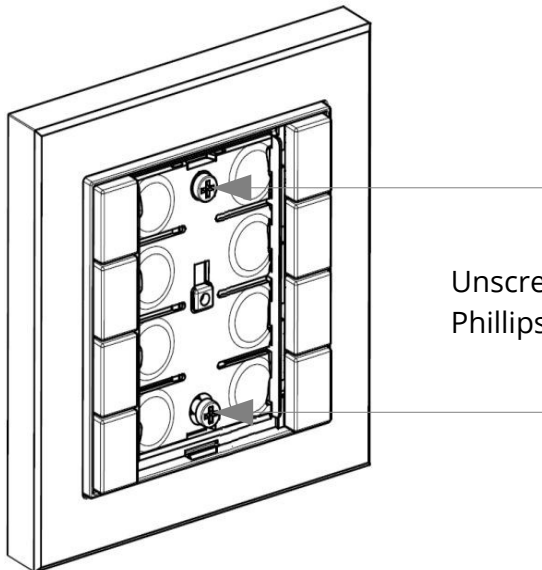
Disconnection actuator part/ support ring

To disconnect the actuator part from the support ring the label holder has to be removed first.



Disengage the label holder with a screwdriver with a blade width of 2.5mm at these points.

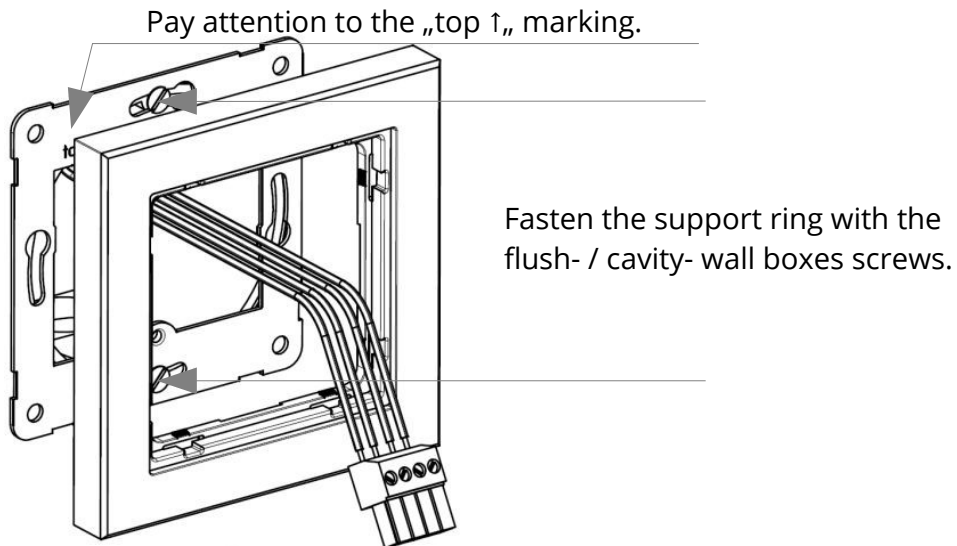
Now the screws to secure the support ring is visible. When the supporting ring is screwed, the support ring is to be released from actuator part.



Unscrew here the support ring with a Phillips screwdriver.

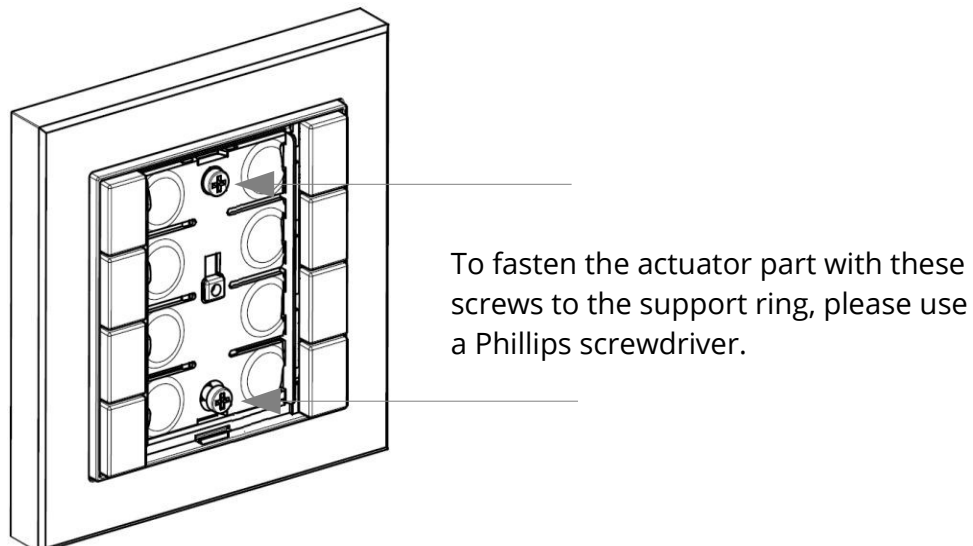
Mount support ring to flush- / cavity- wall box

The support ring has to be mounted to the flush- / cavity- wall box with the marking „top ↑“ visible.



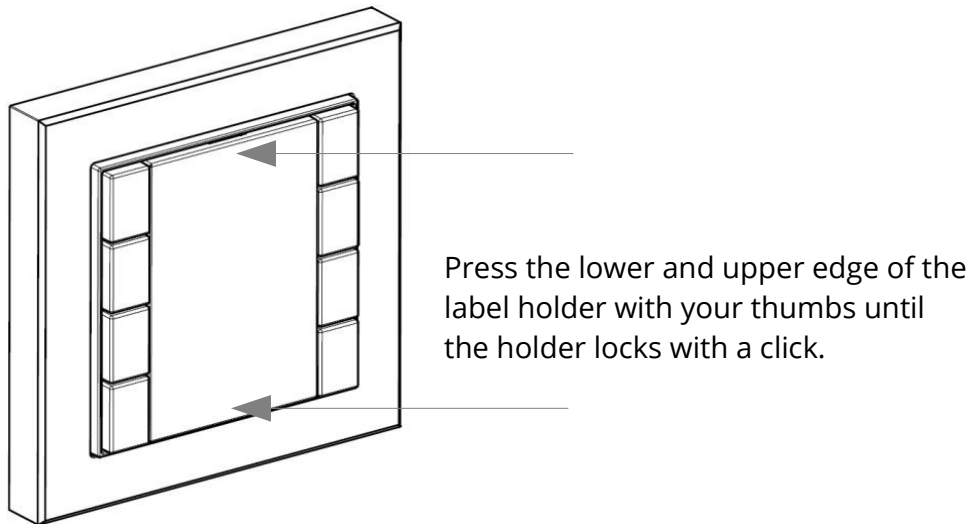
Mount actuator part and nova frame

Attach „nova“ frame and the actuator part (the rear connector of the actuator part has to be at the top) to the support ring. Fasten both parts with the two Phillips screws on the support ring.



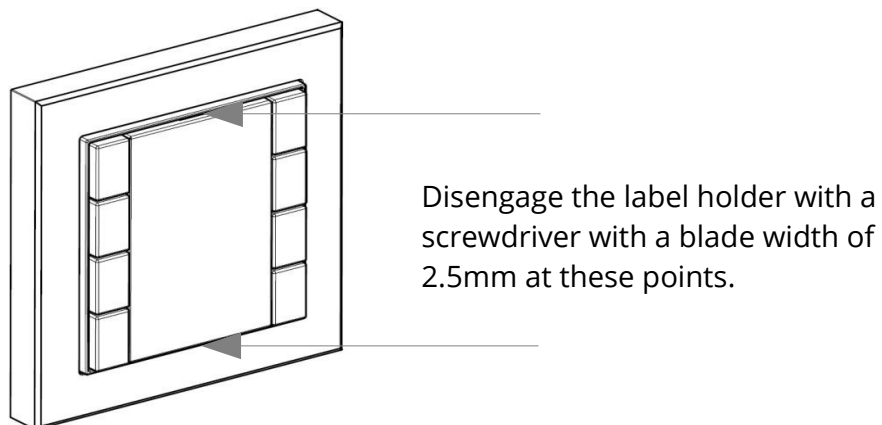
Mount label holder on actuator part

Attach the label holder onto the actuator part. Then press the lower and upper edge of the label holder with your thumbs until the holder locks with a click.

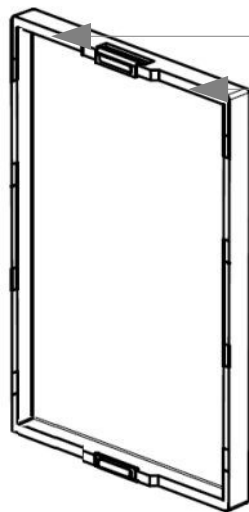


Label sheet change

First, remove the label holder from the actuator part.



The white diffusing screen of the label holder must now be removed, so the label sheet can be changed.

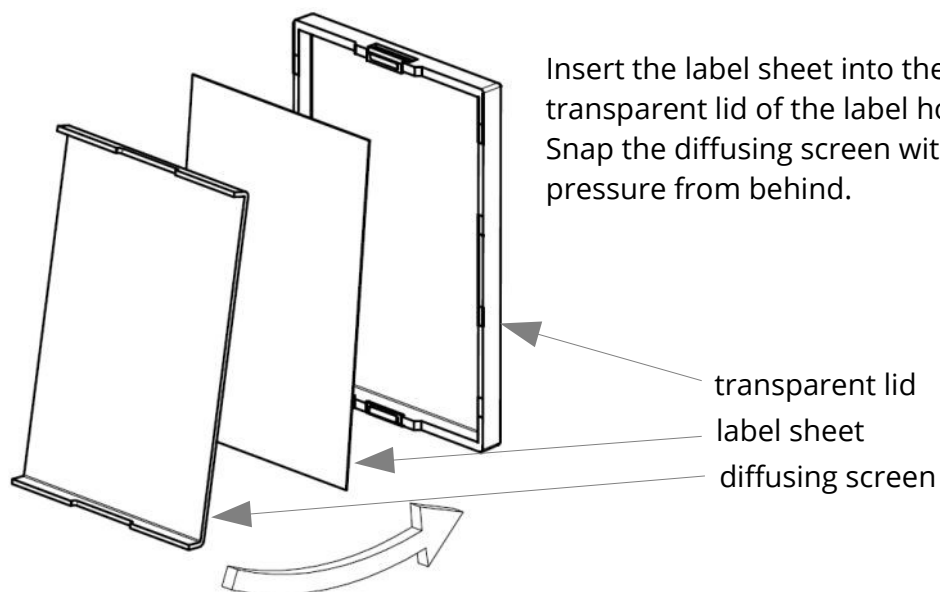


At this point, put a screwdriver with a blade width of 2.0 mm behind the white diffusing screen and unlock it.

The label sheet can be changed now.

The assembly of the label holder is now in the reverse order.

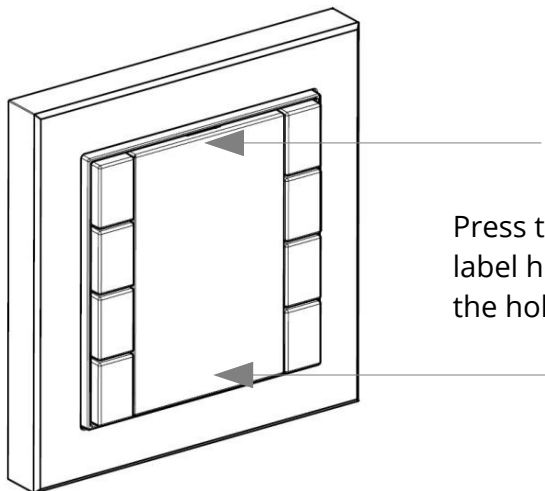
First, the label holder is assembled by inserting the label sheet into the transparent lid of the label holder. Then the white diffusing screen is latched to the lid.



Insert the label sheet into the transparent lid of the label holder. Snap the diffusing screen with light pressure from behind.

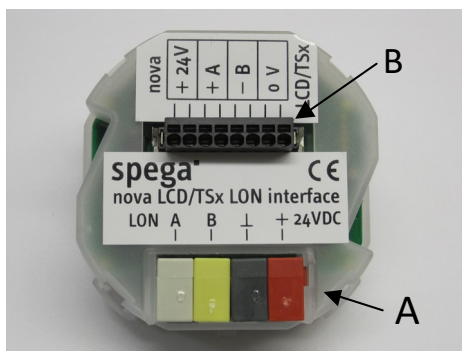
transparent lid
label sheet
diffusing screen

Put the label holder with the new label on the actuator part, then press top and bottom edge of the holder with your thumbs until the label holder snaps in with an audible click.



Press the lower and upper edge of the label holder with your thumbs until the holder locks with a click.

2.2. Installation



The connection of the bus line and the power supply is on the terminal block A. Via the terminal block B, the individual nova TS and nova TS-E modules are connected.

It is possible the connection of 2 modules on the terminal block B.



About the terminals the modules are connected to the terminal block B. Overall, can be bound to a LON node 8 nova TS-modules. The assignment of the modules is done by means of the DIP switch on each device and the corresponding assignment in the plug-in.

3. Technical data

Power supply

Operating voltage	24V DC, (21V DC- 28V DC)
Current consumption (full load)	typ. 30mA (0,7W)
Power dissipation (max.)	0,7W

Connections

Network / Power supply	4-pin plug-in terminal connection for Ø 0,6 - 1,0mm (sol.), four bus lines can be connected to each pin
Actuator interface	4-pin fixed/pluggable terminal block for wire sizes: Solid 0,25mm ² – 1,5mm ² Stranded 0,25mm ² – 1,5mm ² Stranded with ferrule 0,25mm ² – 1,0mm ²

Control elements

Switches	nova TS2: 2 pushbuttons nova TS4: 4 pushbuttons nova TS8: 8 pushbuttons
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Display elements

LED display	8 status LED's (configurable)
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Labeling elements

Labeling area	23 x 54mm (0,9" x 2,1") (project specific labeling)
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Housing

Protection	IP 20 (DIN 40050 / IEC 144)
Dimensions	83 x 83 x 15 (H x W x D)
Type/location of installation	Mounting on a hollow-wall/flush-type socket

Ambient conditions

Operating temperature	+10°C ... +50°C
Storage temperature	-10°C ... +50°C
Transport temperature	-10°C ... +50°C
Relative humidity	5% ... 93% (without dewing)
Installation height	up to 2000m (6500ft) over see level

Safety

Electrical isolation	SELV (EN 60 950)
Protection class	III (IEC 536 / VDE 106 part 1)

Standards

Device safety	EN 50 090-2-2
Immunity	EN 50 090-2-2
Certification	CE

4. Order information

Order number	Description
211 602 GW	nova TS2, pure white glossy
211 602 A	nova TS2, aluminium
211 604 GW	nova TS4, pure white glossy
211 604 A	nova TS4, aluminium
211 608 GW	nova TS8, pure white glossy
211 608 A	nova TS8, aluminium

5. Support

The information given in this manual was carefully compiled. Should you have any further questions regarding this product, please contact:

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