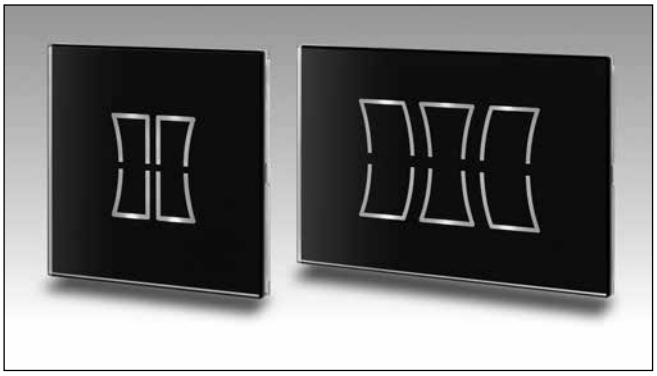
Smart Dupline®
Glass light switch
Types SHG503xLS6, SHG060xLS4



- **Programmable glass touch switch**
- **4 or 6 individually programmable keys**
- **Black or white glass**
- **Backlight ON when the hand nears the glass**
- **Programmable buzzer when a key is pressed**
- **Integrated temperature sensor, range -9° to 50°C**

Product Description

Capacitive glass switch with 4 or 6 keys which integrates a temperature sensor.
The keys can be freely programmed to activate/deactivate any function, while the inputs provided by the temperature sensor can be used to control temperature, fans or whatever other function where a temperature is needed.
Each key has a feedback LED indicating the status of the any function.
When a hand nears the glass, the back light is switched on.
The glass switch is part of the smart-house concept for building automation applications.
It is fully programmable via the SH tool.

Ordering Key

SH G 503 W LS 6

- **Smart house**
- **Glass**
- **Dimensions**
- **Color**
- **Light switch**
- **Number of keys**

Type Selection

Description	Module item
White glass switch for 503 box	**SHG503WLS6**
Black glass switch for 503 box	**SHG503BLS6**
White glass switch for Ø60 box	**SHG060WLS4**
Black glass switch for Ø60 box	**SHG060BLS4**

Output Specifications

Touch glass	
SHG503xLS6	6 LEDs
SHG060xLS4	4 LEDs

Supply Specifications

Power supply	Overvoltage cat. II (IEC 60664-1, par. 4.3.3.2) 15 to 24 VDC ± 20%
Consumption	42 mA, 1 W

Input Specifications

Keypad	
6 touch buttons	SHG503xLS6
4 touch buttons	SHG060xLS4
Temperature	
Sensor	-9° to +50°C (15.8° to 122°F)
Accuracy	-9° to -0°C (15.8° to 32°F), 2°C (3.6°F) 0° to +50°C (32° to 122°F), 0.5°C (0.9°F)

Dupline® Output Specifications

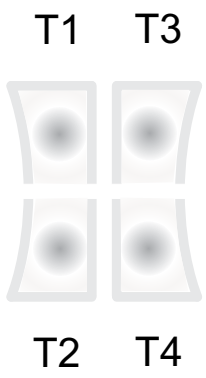
Voltage	8.2 V
Maximum Dupline® voltage	10 V
Minimum Dupline® voltage	5.5 V
Maximum Dupline® current	2 mA

General Specifications

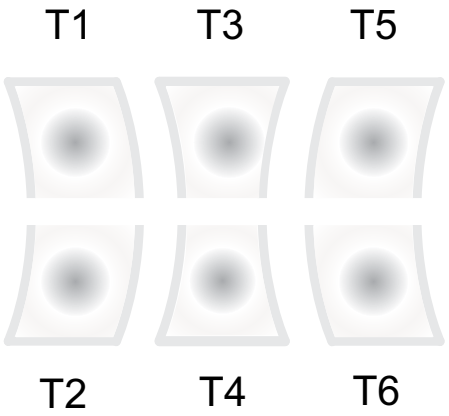
Address assignment	Automatic: the controller recognises the module through the SIN (Specific Identification Number) that is fitted in the SH tool
Environment	
Degree of protection	IP 20
Pollution degree	3 (IEC 60664)
Operating temperature	-10° to +50°C (-14° to 122°F)
Storage temperature	-20° to +70°C (-4° to 158°F)
Humidity (non-condensing)	20 to 90% RH
Connection	
Screwless detachable	0.2 to 1.5 mm^2
D+	Signal
D-	GND
V+	+ 24 VDC
V-	GND
Housing	
Dimensions of back	
SHG503	120 x 80 x 27.2 mm
SHG060	80 x 80 x 27.9 mm
Dimensions of back + front	
SHG503	120 x 80 x 36.8 mm
SHG060	80 x 80 x 36.8 mm
Back part material Glass	ABS Black (SHGxxxBLSx) White (SHGxxxWLSx)

Weight (packing included)	
SHG503	230g
SHG060	180g
Approvals	cULus, according to UL60950 **UL notes:** Max room temperature: 40°C
CE Marking	Yes
EMC	
Immunity	EN 61000-6-2
- Electrostatic discharge	EN 61000-4-2
- Radiated radiofrequency	EN 61000-4-3
- Burst immunity	EN 61000-4-4
- Surge	EN 61000-4-5
- Conducted radio frequency	EN 61000-4-6
- Power frequency magnetic fields	EN 61000-4-8
- Voltage dips, variations, interruptions	EN 61000-4-11
Emission	EN 61000-6-3
- Conducted and radiated emissions	CISPR 22 (EN55022), cl. B
- Conducted emissions	CISPR 16-2-1 (EN55016-2-1)
- Radiated emissions	CISPR 16-2-3 (EN55016-2-3)

Key versions



SHG060xLS4: 4 keys version



SHG503xLS6: 6 keys version

Mode of Operation

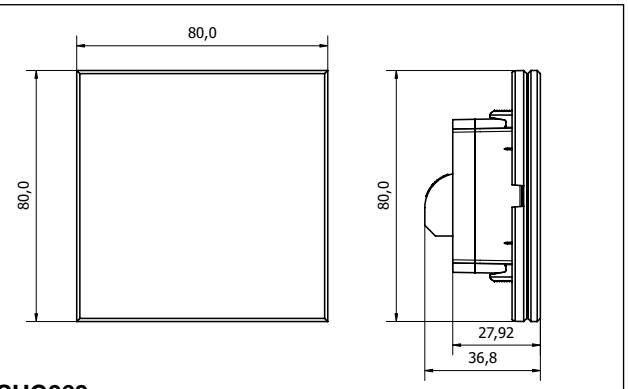
The glass switch is fully programmable by means of the SH tool. Each key and the temperature sensor can be individually associated to one or more of the functions supported by the Sx2WEB24.

Coding/Addressing
No addressing is needed since the module is provided with a specific identification number (SIN): the user has only to insert the SIN in the SH tool when creating the system configuration.

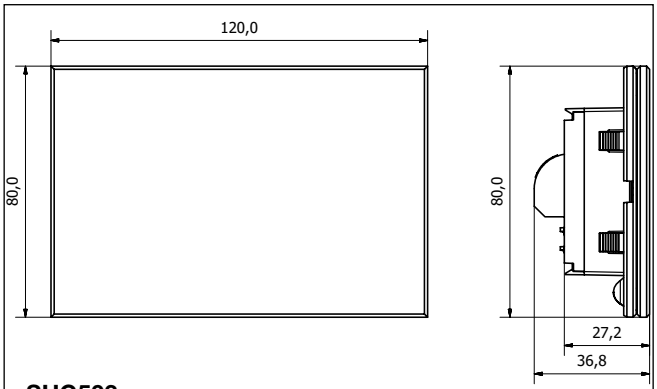
LED programming
LEDs: The 4/6 LEDs can be individually programmed as function status indication.

When the hand nears the glass, the back light is lit if programmed.
The buzzer can be enabled by means of the SH tool to give feedback on the pressure.

Dimensions (mm)

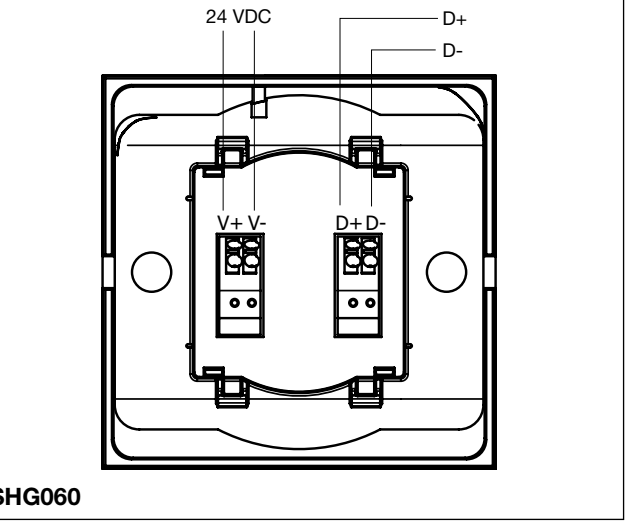


SHG060

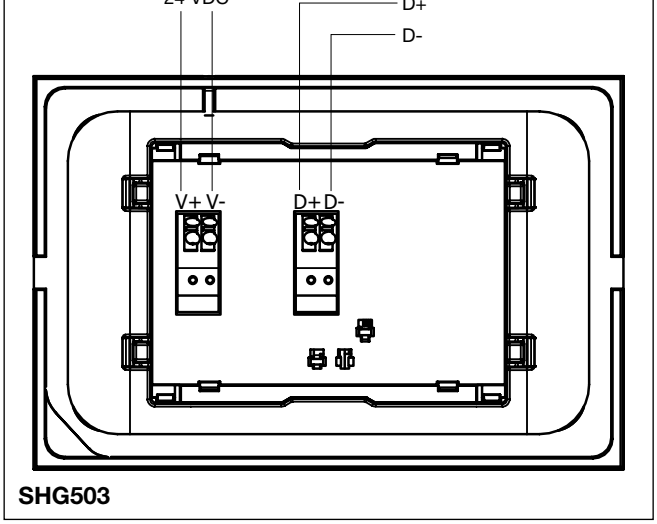


SHG503

Wiring Diagram



SHG060



SHG503