smart-house
Eunica line, Multiple Sensor
Type SHE5XLS4TH

CARLO GAVAZZI

- **Light switch for building automation with integrated sensors for temperature and humidity**
- **Developed to fit into wall socket and frames from Elko, Gira and Jung**
- **4 individually programmable pushbutton inputs**
- **Supplied by bus, no external supply required**
- **Delivered with 2 white and 1 black pushbutton covers**
- **White LEDs: programmable guide light function**
- **Blue LEDs: programmable function status**
- **Temperature range: -40 to +60°C**
- **Humidity range 5 to 95 %**

Product Description

The SHE5XLS4TH is a light switch with 4 buttons and 4 LED outputs which integrates a temperature and a humidity sensor just in one item. It is developed to be mounted into the 55 x 55 wall socket and frame from Elko, Gira and Jung.
This light-switch with its integrated sensors is part of the smart-house concept for building automation applica-

tions. The push buttons can be used to activate/deactivate any function, while the inputs provided by the two sensors can be used to control temperature, fans or whatever other function where a temperature or humidity value is needed.
The SHE5XLS4TH is fully programmable via the SH tool.

Ordering Key

SHE 5 X LS 4 T H

smart-house
Housing 55 x 55 mm
Standard
Light switch
Switch number
Temperature
Humidity

Type Selection

Housing	Colour	LEDs	Supply by bus
55 x 55 mm	White/Black*	4 white / 4 blue	**SHE5XLS4TH**

*Delivered with white and black pushbutton covers

Input Specifications

Temperature	
Sensor range	-40° to + 60°C° (-40° to 140°F)
Accuracy	-40° to -20°C (-40° to -4°F), 1°C
	-20° to +60°C (-4° to 140°F), 0.5°C
Humidity	
Sensor range	5 to 95% RH
Accuracy	± 3%
Keypad	4 push buttons

Dupline® Specifications

Voltage	8.2 V
Maximum Dupline® voltage	10 V
Minimum Dupline® voltage	5.5 V
Maximum Dupline® current	3 mA

Output Specifications

LED	4 white / 4 blue

Supply Specifications

Power supply	Supplied by bus

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General Specifications

Address assignments	Automatic The controller recognises the module through the SIN (Specific Identification Number) that has to be inserted in the configuration tool
Environment	
Degree of protection	IP 20
Pollution degree	3 (IEC 60664)
Operating temperature	-40° to +60°C (-40° to 140°F)
Storage temperature	-40° to +70°C (-40° to 158°F)
Humidity (non-condensing)	5 to 95% RH
Connection	
Screwless detachable	0.2 to 1.5 mm^2
D+	Signal
D-	GND
Housing	
Back part dimensions	55 x 55 x 24 mm
Back part + front dimensions	55 x 55 x 28.5 mm
Back part material	Plastic, transparent
Push button covers	Plastic white (RAL 9010) Plastic clear white (RAL 9016) Plastic black
Accessories	Plastic frame

Weight	50 g
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)

Mode of Operation

The SHE5XLS4TH is fully programmable via the SH Tool.
Each push-button, the temperature sensor and the humidity sensor can be individually associated to one or more of the functions supported by the smart-house system.

Addressing
No addressing is needed since the module is provided with a specific identification number (SIN):
the user has only to insert the SIN number in the SH tool when creating the system configuration.
Used channels: 4 input channels, 4 output channels.

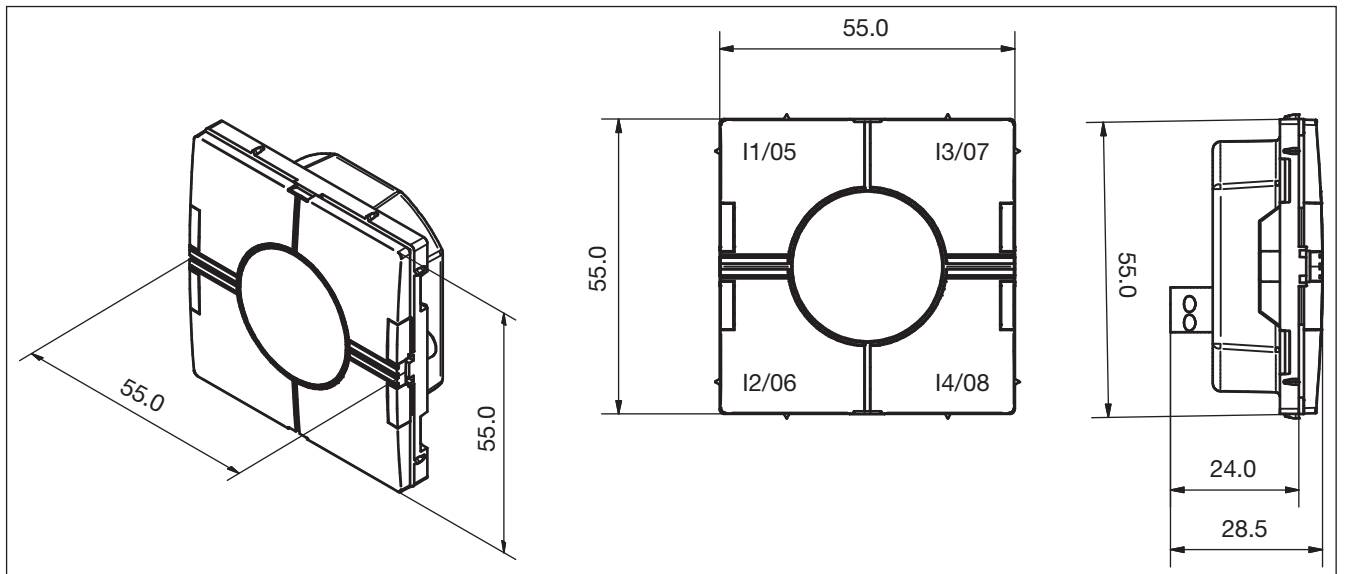**LED programming**
Also the LEDs are configurable via SH Tool:
• White LEDs. The 4 white LEDs can be programmed as guide light.
• Blue LEDs: The 4 blue LEDs can be individually programmed as function status indication.
If the dupline bus is faulty or missing, the LED will be OFF.

Wall Socket and frame compatible with the Eunica line
The Eunica 55 x 55 light switch can fit into the frame and wall socket listed below: for any other model not included here below, Carlo Gavazzi does not grant any compatibility.
• ELKO
• GIRA
• JUNG.

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Dimensions

55.0

I1/05   I3/07

55.0

55.0

I2/06   I4/08

55.0

55.0

24.0

28.5

Wiring Diagrams

D+
D-

D-
D+