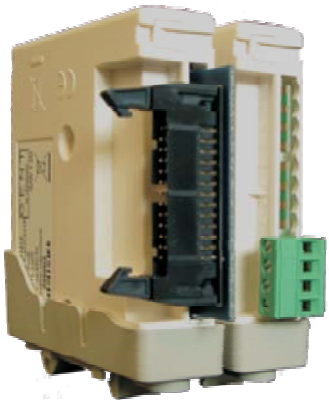
Data and Installation

12-Supervisory input module

S4-34412 & S4-34495

S4-34412
12-Supervisory Input Module

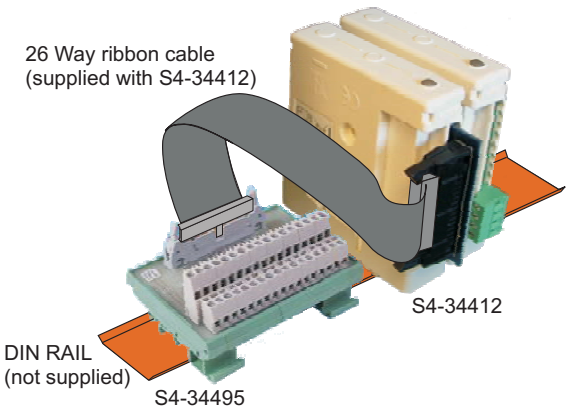


26-way
300mm ribbon cable

S4-34495
Connection Converter

These instructions cover the *12-Supervisory input module (**Also referred to as 12-input interface module**)* (S4-34412) and *Connector converter* (S4-34495). These are designed to be installed in custom panel to provide supervisory input to control plant via Vigilon System. The module connects to a loop circuit of a Vigilon fire alarm control panel. It uses one of 200 device addresses on the loop and responds to regular polls from the control panel, reporting the device type and the status of its supervisory switch inputs.

The *module* can only accept non fire supervisory switch inputs.



The module is supplied with a 26 way ribbon cable for connecting to a *Connector converter* that holds the terminals for external input switches and corresponding confirmation LEDs for each switch.

Compatibility

The *12-Supervisory input module* is compatible for use in a Vigilon system where the Control panel has specific MCC/MCB software, see technical data section. The *12-Supervisory input module* is configured using the Vigilon Commissioning tool V1.25 or higher.

LED selection and operation

Only use high efficiency **Red**, **Amber** and **Green** LEDs with this module.

Do not use Blue or White LEDs as these are not suitable for use with the module.

The LEDs provide a flashing indication when the corresponding switch is closed and *switch operated message* is successfully sent to the control panel.

Cables

The internal connection from the *Connection converter* to each switch and LED is made using a standard PVC cable. Each switch and LED can be positioned a maximum of up to **10m** cable distance away from the *Connection Converter*.

For recommendations on loop cable type refer to the manual supplied with the Vigilon control panel.

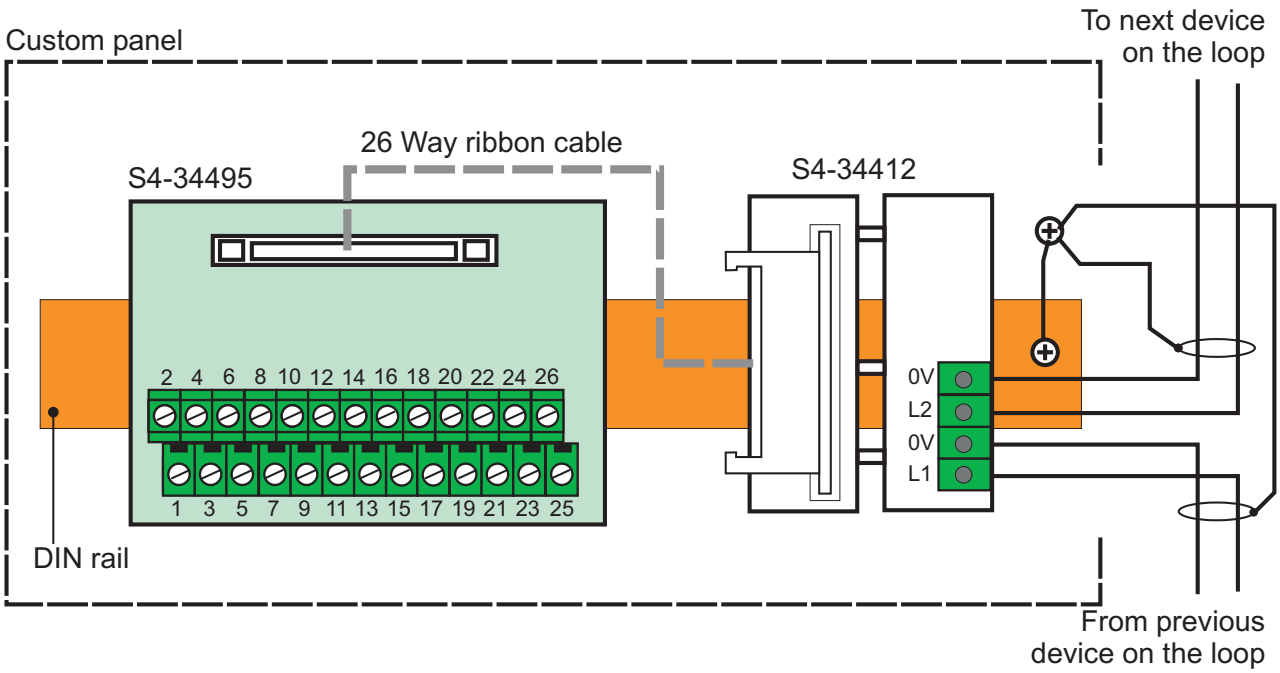
Mounting

It is recommended that the *12-Supervisory input module* and *Connection converter* are mounted on DIN rails inside a suitably protected enclosure, the custom panel. The switches, LEDs and associated wiring should be contained in the same enclosure for mechanical protection.

The designer of the custom panel in which the modules, LEDs and switches are mounted must ensure the panel enclosure is EMC compliant and is CE marked.

Loop wiring

The loop cable screen must be continued through each *module*. The loop cable screens must be connected to an earth terminal inside the enclosure.



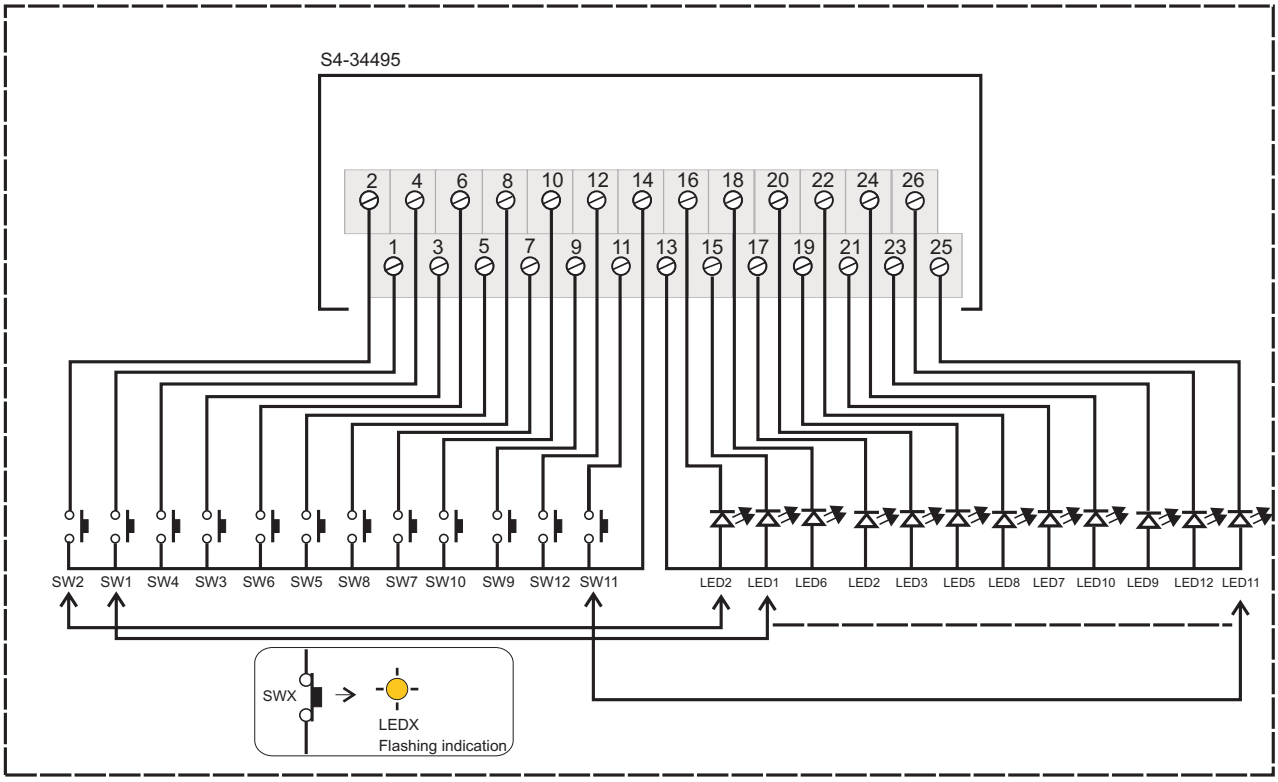
Terminals and description

1	Switch 1 (SW1)	14	Common
2	Switch 2 (SW2)	15	Confirmation LED 1
3	Switch 3 (SW3)	16	Confirmation LED 2
4	Switch 4 (SW4)	17	Confirmation LED 3
5	Switch 5 (SW5)	18	Confirmation LED 4
6	Switch 6 (SW6)	19	Confirmation LED 5
7	Switch 7 (SW7)	20	Confirmation LED 6
8	Switch 8 (SW8)	21	Confirmation LED 7
9	Switch 9 (SW9)	22	Confirmation LED 8
10	Switch 10 (SW10)	23	Confirmation LED 9
11	Switch 11 (SW11)	24	Confirmation LED 10
12	Switch 12 (SW12)	25	Confirmation LED 11
13	Common	26	Confirmation LED 12

Wiring the switches and LEDs

The switch input and LED output wiring are not monitored for wiring faults. If using screened cables for wiring the switches and LEDs, then the cable screens must connect to the earth terminal inside the Custom panel.

Custom Panel



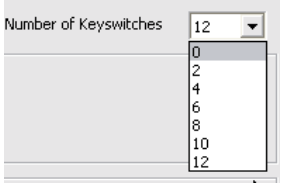
Configuration

The following information is intended for use by the servicing organisation to assist with the configuration of the *12-Supervisory input modules* connected to the Vigilon system loops.

Use Commissioning Tool software version 1.25 or greater to commission the *12-Supervisory input modules*.

Open the system configuration in the tool, select the S4 interface icon  to call up the *S4 Interface Configuration window*.

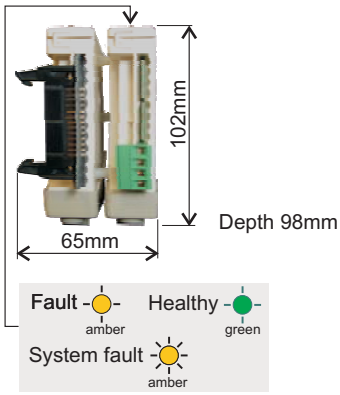
Select the required *12-Supervisory input module* from the list and then select the number of supervisory inputs *'Number of Keyswitches'* in use by the *interface*. Selecting a '0' setting will revert the window for configuring a 4-channel S4 interface. Each of the used switch input of the *12-Supervisory input module* can be configured to trigger a command build action.



Continue configuring the Vigilon system and on completion **Transmit** the configuration data to the control panel. Then test each switch input connected to the *12-Supervisory input module* and ensure the configured actions occur in the Vigilon system and where confirmation LEDs are wired ensure they are illuminated.

Technical data

	S4-34412 *12-Supervisory input module* (**also referred to as 12-Input interface module**)
Designed to meet	EN54-17:2005 and EN54-18:2005
Dimensions	102mm height x 65mm width x 98mm depth
Weight	175g
Storage temperature	-30ºC to 70ºC
Operating temperature	-10ºC to 60ºC
Relative Humidity	Up to 95% - Temperature 5ºC to 45°C (Non condensing)
Colour	White
Switch inputs	Switch contact resistance of <1Ω with low current operation of <1mA. Up to 12 normally open switches positioned no more than 10m cable distance away from the *Connection Converter* are allowed (this wiring is not monitored for faults). A closed switch provides a Supervisory (non fire) input into the Vigilon System.
LED outputs	Up to 12 confirmation LEDs positioned no more than 10m cable distance away from the *Connection Converter* are allowed (this wiring is not monitored for faults). Use only high efficiency **Red**, **Amber** or **Green** LEDs.
Load Factor	Module = **1** (if no confirmation LEDs are used) LED outputs used = **5**
EN54-17 data	**Vmax** Vnom **Vmin** VSO max **VSO min** *I*C max ***I*S max** *I*L max **ZC max** **42V** 40V **24V** 14V **10V** 0.4A **1A** 20µA **0.10Ω**
Vigilon Panel compatibility	Fully compatible with LPC = V3.93 / V4.35 & MCC/MCB = V3.94 / V4.37



At the end of their useful life, the packaging, product and batteries should be disposed of via a suitable recycling centre and in accordance with national or local legislation.

WEEE Directive:
At the end of their useful life, the packaging, product and batteries should be disposed of via a suitable recycling centre.
Do not dispose of with your normal household waste. Do not burn.

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