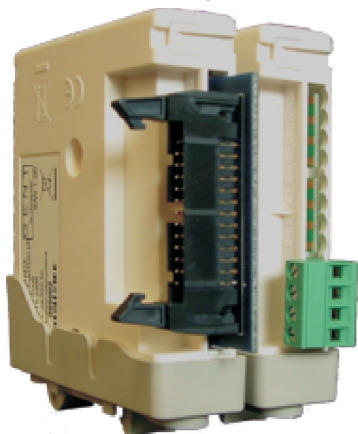
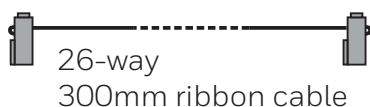


12-Supervisory input module (S4-34412 & S4-34494)

S4-34412
12-Supervisory Input Module



S4-34494
Connection Converter



These instructions cover 12-Supervisory input module, also referred to as 12-input interface module (S4-34412), which is used with a Connector converter (S4-34494). These modules are designed to be installed inside custom panel to provide supervisory input to control plant equipment 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.

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.



The 12-Supervisory input module can only accept non fire supervisory switch inputs.

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.

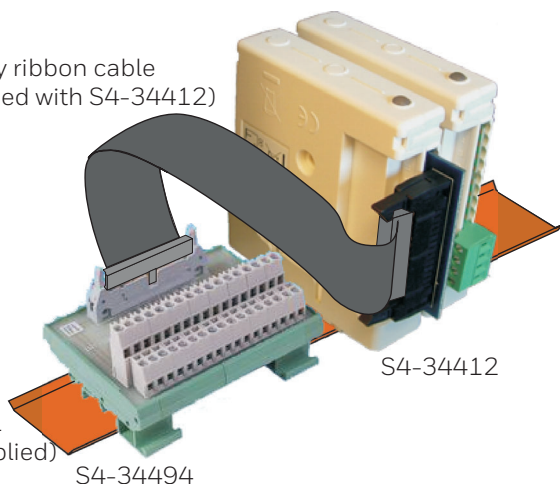
Mounting

It is recommended that the 12-Supervisory input module and Connection converter are mounted on DIN rail 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.

26 Way ribbon cable
(supplied with S4-34412)

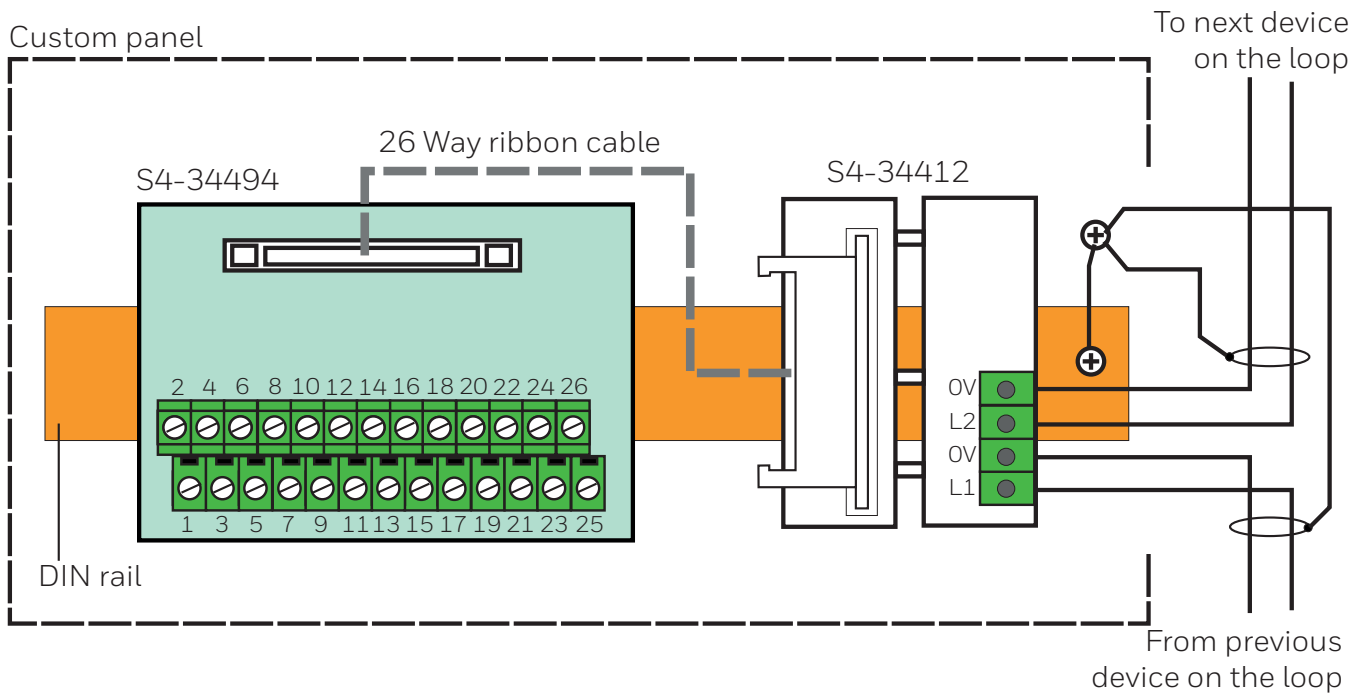


Compatibility

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.

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.

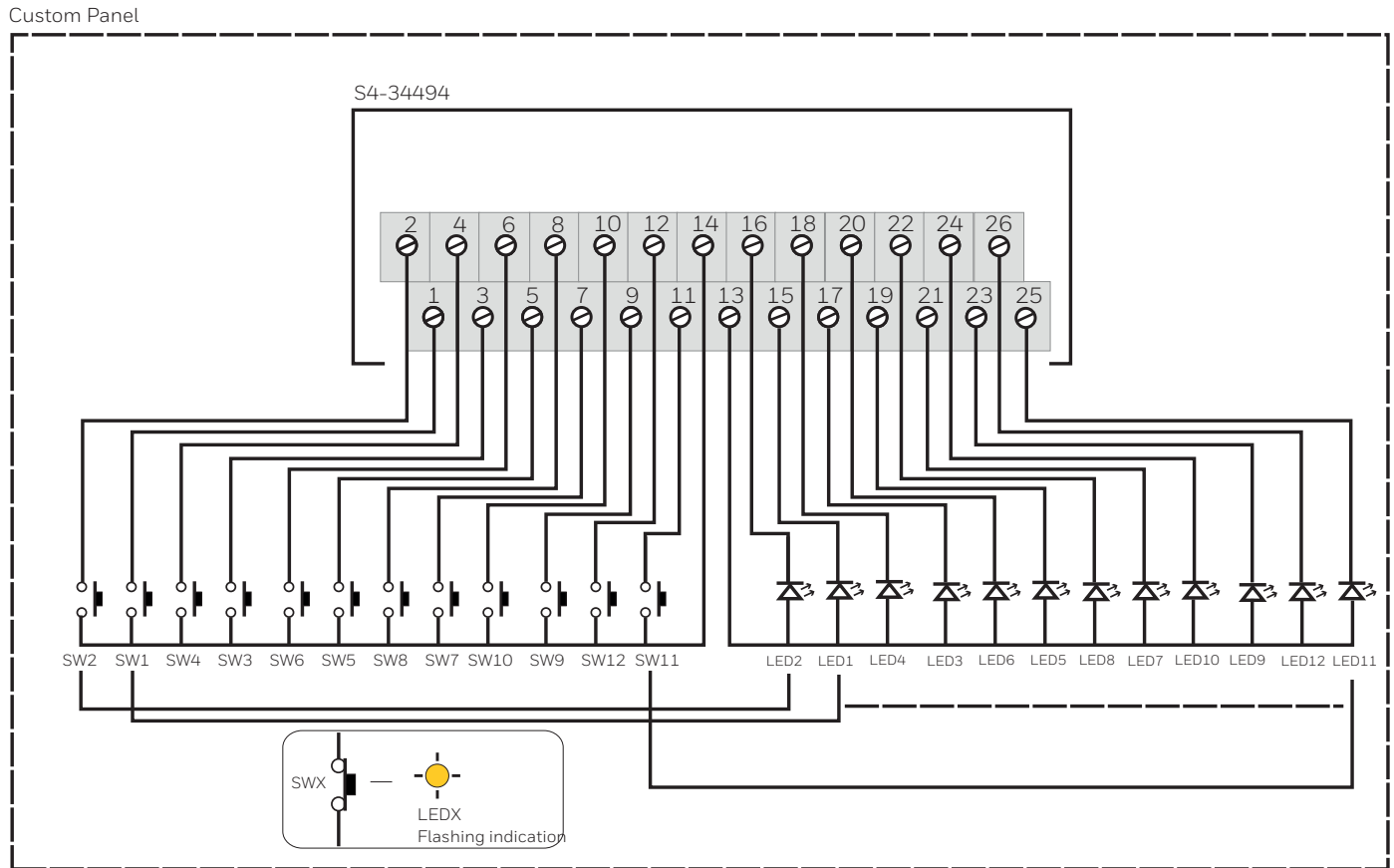


Terminal descriptions

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 of switches and LEDs

i 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.



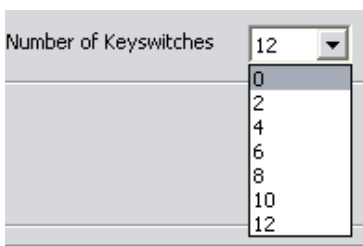
Configuration

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.

i 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.

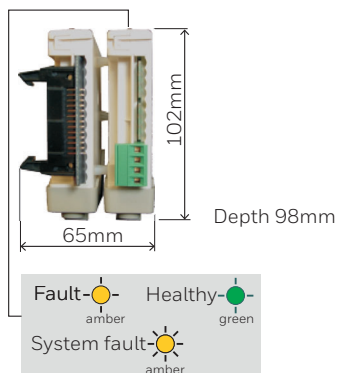



Continue configuring the Vigilon system and on completion Transmit the configuration data to the control panel. Then test each switch input connected to the 12-Supervisory input module and ensure the configured actions occur in the Vigilon system and where confirmation LEDs are wired ensure they are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


Data and installation

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	102 mm height x 65 mm width x 98 mm depth
Weight	175 g
Colour	Back box - Dark Grey Lid - Light Grey
Storage temperature	-20°C to +70°C
Operating temperature	-10°C to +60°C
Relative Humidity	up to 95% - Temperature +5°C to +45°C (Non condensing)
Colour	White
Switch inputs	Switch contact resistance of <math><1\Omega</math> with low current operation of <math><1\text{mA}</math>. Up to 12 normally open switches positioned no more than 10 m 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 10 m 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) If LED outputs are used = 5
Operating Voltage	35 V - 48 V
EN54-17 data	Vmax Vnom Vmin VSO max VSO min IC max IS max IL max ZC max 48 V 40 V 24 V 16 V 8 V 0.8 A 1.25 A 50 μA 0.2 Ω
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.

Honeywell Gent reserves the right to revise this publication from time to time and make changes to the content hereof without obligation to notify any person of such revisions of changes.

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