VANTAGE CIS10-DIN Contact Input Station User Guide
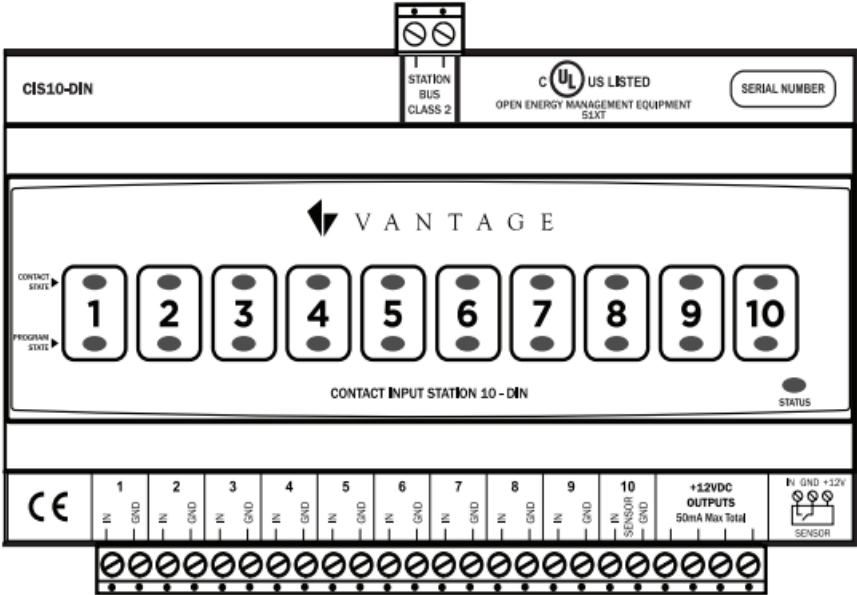
CIS10-DIN Contact Input Station
User Guide

Contact Input Station – DIN
Installation Instructions

Contents

OVERVIEW

The DIN Contact Input Station Wire Link™ model, CIS10-DIN, features 10 contact input channels for receiving Dry-Contact Open/Close states from external devices.
Various types of external switches and sensors are available from Vantage and other third party manufacturers. These include magnetic door contact switches, momentary switches, motion detectors, stress sensors, humidity and temperature sensors, smoke and carbon monoxide detectors, driveway probes, etc.

⚠ CAUTION ⚠

36V stations have a symbol on the Serial Number sticker. Any station, not displaying this symbol, **36,** should not be connected to a 36Volt Station Bus.

SPECIFICATIONS

Description	Specification
Dimensions, HWD	3.38" x 6.19" x 2.44" (85.7mm x 157.2mm x 61.9mm)
Weight	7.09oz / 201g
|Mounting	35 mm DIN Rail (EN 50 022: 1977)
Number of Contacts	10
Max. Current from +12V	50mA combined
Station Wiring Configuration	Daisy-chain / Star / Branch
Station Bus Specification	2C, 16AWG / 1.31mm2, twisted, non-shielded, <30pF per foot. Separate a minimum of 12" / 30.5cm from other parallel communication and/or high-voltage runs
Station Equivalent	0.5W on IC-24 / 0.7W on IC-36
Station Bus Connections	24V / 36V Station Bus
LED Indicators	Contact State, Program State and Status
Ambient Operating Temperature	32-95°F / 0-35°C
Ambient Operating Humidity	5-95% non-condensing
Certifications	UKCA, CE, UL, cUL

SOFTWARE/FIRMWARE

The Wire Link model is compatible with In Fusion Design Center software. For new projects it is recommended that firmware and software be kept to the most current release.

INSTALLATION

Installation of Vantage products should be performed or supervised by a Certified Vantage Installer. There is one method of connecting the Station Bus to the Contact Input Station:

1. Using the Station Bus connection on the removable screw terminal connectors.

CONNECTING DEVICE REQUIREMENTS

All low-voltage connections to each Contact Input are wired to removable screw terminal connectors. All 10 Contact Inputs are available on the bottom of the Station. Each Contact Input can be given custom names in software to facilitate their use in the installation. Auxiliary 12VDC connections are also available on the DIN CIS screw terminal connectors. There are 4 screw terminal connections available with a maximum, combined current of 50ma or any single connection with a maximum of 50ma. The ground for the 12VDC connections is any one of the Contact Input ground connections.

The DIN CIS has two sets of removable screw terminal connectors on the bottom for wiring. Any device that connects to the CIS must only use the CIS ground for the ground reference. This is often called a "floating" or "isolated" input to the DIN CIS. This isolation can be provided from several different systems. The most common are door contacts and motion detectors, providing a dry contact relay connection to the CIS. Battery powered devices that are not connected to other equipment can be used with the DIN CIS. Devices that are powered from the +12Vdc and CIS ground connections can also be used. Input 10 may be programmed as an auxiliary input or

the Vantage LightPoint Sensor.

The DIN CIS inputs can accept small voltage levels (0 to 12VDC) instead of dry contacts as long as the voltage is only referenced to the CIS's ground. The input will switch the CIS when the voltage reaches the required level. The logic may be reversed in the software by changing the polarity from Normally Open to Normally Closed. A power level of 0.0VDC to 0.5VDC equals a PRESS, 3.0VDC to 12VDC equals a RELEASE. A 2.0VDC power range is insufficient to toggle an Open/Close state.

EXAMPLE:

Current CIS State	Input Voltage	Resulting CIS State
Open	< 0.5V	Closed (PRESS)
Closed	>3.0V	Open (RELEASE)

NOTE: WIRE RECOMMENDATION-Contact wire runs should be limited to 250 feet / 76.2 meters for each wire run, using a minimum of 20AWG gauge wire. All connections use 4.4 inch pound torque. Stranded wire recommended.

STATION SET UP IN SOFTWARE

InFusion: First select the room, then click on Vantage Objects in the Object Explorer and expand Stations, Wire Link. From the list of stations double-click on the DIN Contact Input Station to place it in the room. In the Object Editor, name the station and make sure it is on the correct Station Bus port. Each contact is also listed in the Object Editor and may be assigned to a task and given unique names, Polarity and Hold On Time settings.

QLink: In QLink Location view, select the floor and room where the Contact Input Station will be added. Right-click on the room and select Add DIN Stations. Select Contact Input. The Contact Input Station Box will pop up. Each of the buttons on the CIS are programmed identically as Keypad Station buttons.

PROGRAMMING CONTACT INPUTS

When programming, each Contact Input can trigger any appropriate tasks or functions available in Design Center, and work like a button press and release. Select switch polarity Normally Open or Normally Closed and set Switch Hold Time (Default hold time of 0.00s, is normally used).

CONFIGURATION WITH WIRELINK MODELS

When the DIN CIS is first connected to the Station Bus, the Status LED will blink twice followed by a pause, meaning that the station is connected correctly but not yet configured. From Design Center, click in the Serial Number section in the Object Editor and type in the serial number. Once configured, the Status LED will blink evenly.

NOTE: The ability to configure a CIS station by pressing any button on the front of the CIS was removed because it was possible for the station to send unwanted presses during the configuration stage causing a station to receive the wrong serial number. An example of this happening is as follows: A CIS could have motion detectors connected to it and when walking through a project to configure stations the person walking could inadvertently cause the motion detectors to send button presses telling the software to configure the station that was currently highlighted in the Configure Stations window. This could happen on DIN CIS and Standard CIS stations. Now Button presses received from dry-contacts are ignored when on-line configuration is selected.

DIAGNOSTIC AND TEST INFORMATION

Each contact input has an actuator button and 2 status LED's. The actuator button shorts the input to ground. The Contact State LED illuminates when the contact input is grounded. The Program State LED operates the same as switch LEDs on a keypad station.

When grounded, Contact States trigger the Program State ON or OFF depending on whether the contact's polarity is set to Normally Open or Normally Closed.

The Status LED blinks steady on and off for 1, 2, 3 or 4 blinks followed by a pause.

**One Even Blink:** CIS is operating correctly and is configured

Two Blinks: CIS is operating correctly but is not configured (wired model)

Three Blinks: CIS is not communicating with the Main Controller, verify Station Bus wiring or if it is not yet configured

Four Blinks: Factory problem, please contact the factory

Five Blinks: Configuration mode

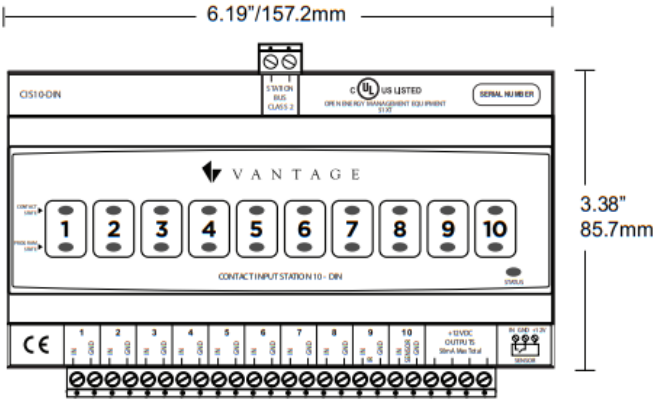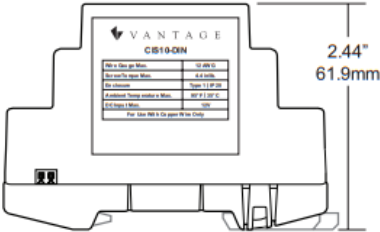# MULTI-VIEW LINE DRAWINGS AND CONNECTION DIAGRAMS
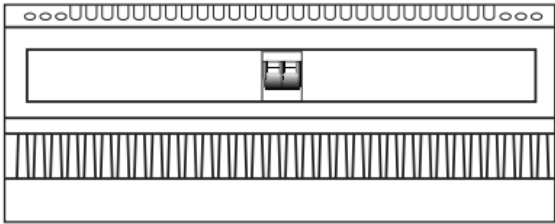
TOP VIEW

SIDE LABEL ENLARGED

CIS10-DIN

Wire Gauge Max.	12 AWG
Screw Torque Max.	4.4 in/lb.
Enclosure	Type 1 | IP20
Ambient Temperature Max.	95°F | 35°C
DC Input Max.	12V
For Use With Copper Wire Only	

6.19"/157.2mm

3.38"
85.7mm

FRONT VIEW

2.44"
61.9mm

SIDE VIEW

Strip Back Insulation
0.25" / 6.5mm

**RECOMMENDED WIRE TYPE
FOR CIS10-DIN SCREW TERMINALS**

LOADS:
Stranded - 0.75 - 3.31mm² / 20-14 AWG,
copper wire

STATION BUS:
Vantage Station Bus - (See specifications table)

WARRANTY INFORMATION

Vantage warranties its products to be free of defects in materials and workmanship for a period of five (5) years. There are no obligations or liabilities on the part of Vantage for consequential damages arising out of, or in connection with, the use or performance of this product or other indirect damages with respect to loss of property, revenue or profit, or cost of removal, installation or reinstallation.

V A N T A G E

Documents / Resources

VANTAGE CIS10-DIN Contact Input Station [pdf] User Guide
CIS10-DIN Contact Input Station, CIS10-DIN, Contact Input Station, Input Station, Station

References

- **Home Automation and Control Systems for Luxury Spaces - Vantage Controls | Legrand**
- **User Manual**