Vantage® Input/Output & Extension Modules

Extension modules that expand the Vantage video detection system

Benefits of Vantage Extension Modules

Plug and play operation enable the use of existing detector racks

Simple to use interface reduces training time and improves productivity levels

Expandable and modular system allows for optimal configuration that helps to reduce cost while preserving room for incremental growth

Expanded number of inputs and outputs for maximum flexibility

Standard loop amplifier modules communicate with traffic signal controllers using open collector output channels (or "contact closure" circuits as they are sometimes called). Iteris' Vantage Edge®2 video detection system communicates with traffic signal controllers in exactly the same way by using Extension Modules (EM) and Input/Output (IO) modules.

The Vantage® video detection system offers a range of EM and IO modules to simplify the installation and connection of the Edge2 video processor module to the traffic signal controller using the cabinet's existing detector rack and wiring harness.

The Edge2 video detection processor has 4 open collector outputs per module card. By adding one or more EM or IO modules – up to a maximum of 24 outputs per video input – you can expand the size and functionality of the video detection system to match the needs of the intersection's requirements.

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Options for any application

Vantage EM and IO modules are available in 2-channel, 4-channel, and 32-channel models that fit into Caltrans I70 /2070 input files and NEMA TS-I and TS-2 detector racks. All modules are NEMA compliant and conform to the same electrical output characteristics of standard loop amplifier modules. Vantage EM and IO Modules are all hot-swappable and designed for "Plug and Play" operation.

The IO module differs from the 2 and 4 Extension Modules by offering eight isolated input channels. These input channels may be connected to the traffic signal controller to provide phase information to the video detection processor to allow for greater control over virtual zone operation and function.

SPECIFICATIONS

	2-Channel	4-Channel	32-Channel
Power	I2 or 24VDC, 3W	I2 or 24VDC, 3W	I2 or 24VDC, 3.5W
Output Collector	50mA @ 30VDC	50mA @ 30VDC	50mA @ 30VDC
Input Collector	N/A	N/A	0.9mA @ I2VDC
Connections			
Output	Via detector rack	Via detector rack	DB37 – front
Input	Via detector rack	Via detector rack	DBI5 – front
Inter – Module	2 x RJ45 – front	2 x RJ45 – front	2 x RJ45 – front
Mechanical			
Size – Inch	7" x 4.5" x I.25"	7" x 4.5" x 2.3"	7" x 4.5" x 2.3"
Size – Cm	I7.8 x II.4 x 3.2	I7.8 x II.4 x 5.8	I7.8 x II.4 x 5.8
Weight	0.30lbs (0.I3Kg)	0.4Ilbs (0.I9Kg)	0.52lbs (0.23Kg)
Status Indicators			
Module Address	7-segment LED	7-segment LED	7-segment LED
Channel Status	2 x LEDs	4 x LEDs	8 x LEDs
Op. Temperature	-35°F to I65°F (-37°C to +74°C)		
Humidity	0° – 95° non-condensing		
Vibration	0.5G, 3 axes, 5-30Hz		
Shock	I0G in all axis		
Regulatory	NEMA TS-I, TS-2, Caltrans I70/2070 systems		
Warranty	3 years limited warranty		

ISO 9001:2008

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