VESDA-E Analytics Relay Module

The VESDA-E Analytics Relay Module provides notification of an analytics event detected by a VESDA-E aspirating smoke detector with Analytics capability to third party devices, via relays. For example, the Analytics Relay Module outputs can be integrated with HVAC systems for environmental control.
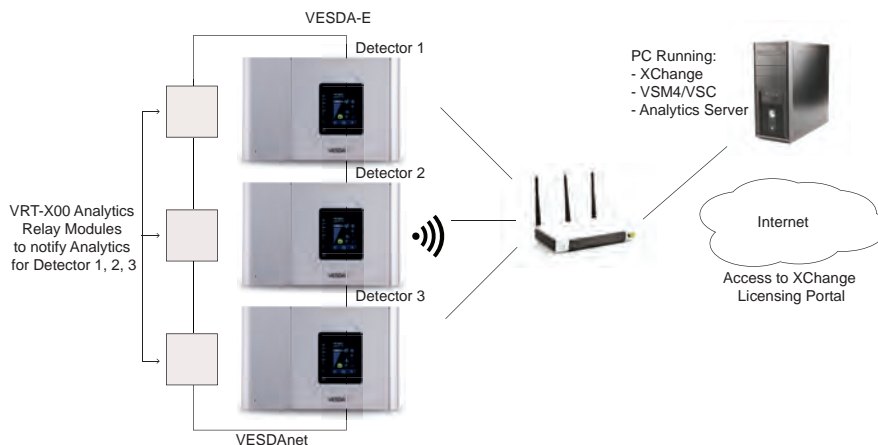
Operation

The Analytics Relay Module contains seven relays which change state in response to an event. Relay state changes are controlled by the analytics server and communicated to the Analytics Relay Module via the detector, over VESDAnet.

Configuration Example

The configuration example shown below contains three VESDA-E detectors with Analytics capability enabled connected via VESDAnet to three corresponding Analytics Relay Modules, which are in turn connected to third party equipment via relays.

One Analytics Relay Module is required for each VESDA-E detector.

Features

- Notification to third party devices of analytics events detected by VESDA-E detectors, via relays
- Compatible with Xtralis Xapps DieselTrace, DustTrace and WireTrace Analytics
- Fault monitoring of detector and analytics server
- Communication with VESDA-E detectors using VESDAnet
- Designed for easy mounting

Requirements

- VESDA-E Aspirating Smoke detector with Analytics capability enabled
- Minimum one Analytics License (Xapp) DieselTrace, DustTrace or WireTrace
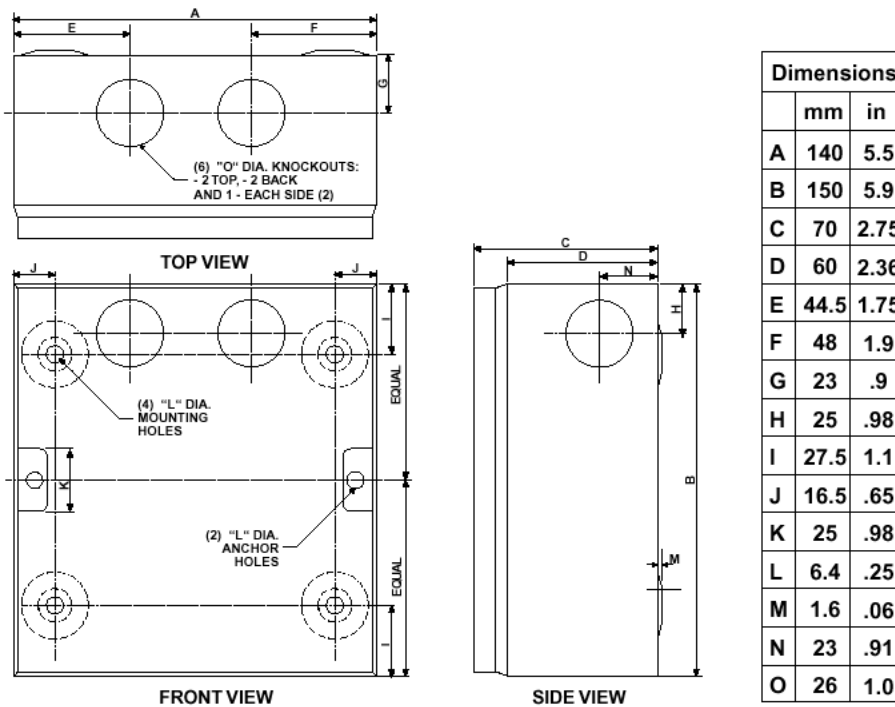
VESDA-E Analytics

VESDA Analytics provides additional unique particle characterization capabilities that enable targeted detection and response. They are designed to identify specific threats during the very early stages of fire development (typically Alert, Action levels of VESDA-E) or monitor specific particles for environmental control integrated into building management or process control.

Dimensions

Dimensions		
	mm	**in**
A	140	5.5
B	150	5.9
C	70	2.75
D	60	2.36
E	44.5	1.75
F	48	1.9
G	23	.9
H	25	.98
I	27.5	1.1
J	16.5	.65
K	25	.98
L	6.4	.25
M	1.6	.06
N	23	.91
O	26	1.0

Termination Card

Specifications

Supply Voltage: 18 to 30VDC

Relays:
Contacts rated 2A @ 30V NO/NC

<u>4 Analytics Relays:</u>
DieselTrace, DustTrace, WireTrace, Server Fault

Warning: The DieselTrace, DustTrace and WireTrace outputs must not be used to inhibit the Fire Alarm reporting of VESDA-E detectors.

<u>3 Detector Relays:</u>
Urgent Fault, Minor Fault, Disabled (Isolated)

Dimensions (WHD):
140 mm x 150 mm x 85 mm
(5.5 in. x 5.9 in. x 3.4 in)

Cable Access:
6 x 25mm (1") cable entries

Cable Termination:
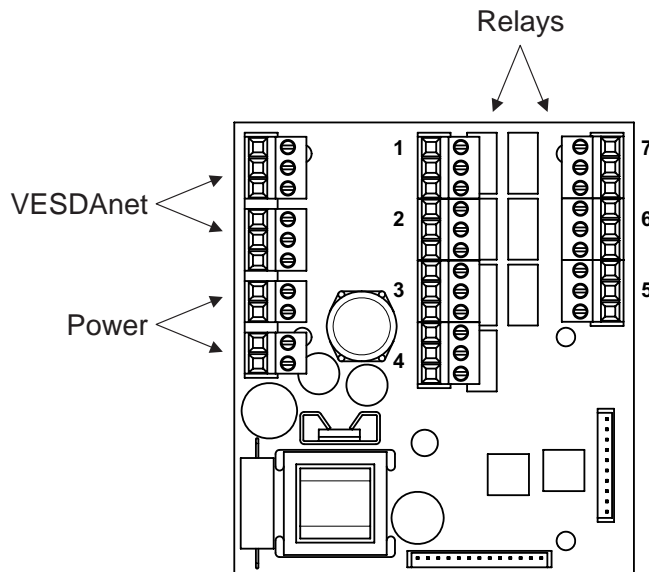Screw terminals 0.2-2.5 mm² (30-12 AWG)

Communication: VESDAnet

Default Relay States

Relay	Function	Default State
1	Disabled (Isolated)	de-energized
2	Minor fault	de-energized
3	Urgent fault	energized
4	DieselTrace	de-energized
5	DustTrace	de-energized
6	WireTrace	de-energized
7	Server Fault	de-energized

Ordering Information

VESDA-E Analytics Relay Module	VRT-X00

VESDA®