

ADDRESSABLE HEAT DETECTOR

VDOT-H2(-H)



■ Description

Models VDOT-H2 and VDOT-H2-H is an attractively styled, low profile heat detector for use with the Fire Alarm Control Panel of Velocity MMP control panel series. These heat detectors are intelligent (addressable) detectors that have the ability for each detector address to provide exact detector locations. The detector sensitivity is continually monitored and reported to the panel. The detectors incorporate a highly linear thermistor circuit, with the thermistor mounted externally. The specially designed cover protects the thermistor while allowing maximum air flow. The thermistor circuit produces a voltage proportional to the temperature which is scaled, and transmitted as a digitally encoded value to the control panel.

The VDOT-H2 and VDOT-H2-H require compatible addressable communications to the control panel in order to function properly. All detectors have random addresses from the factory before installation. The VDOT-AD2 Address Programmer is used for setting the address between 1 and 254 decimal of all devices prior to installation. Once addressed connect these detectors to only UL listed-compatible control panels.

The VDOT-H2 is a 8.3°C (15°F) rate-of-rise temperature heat detector with 57°C (134°F) fixed temperature alarm.

The VDOT-H2-H is a high temperature heat detector with 83°C (181°F) fixed temperature alarm.

■ Features

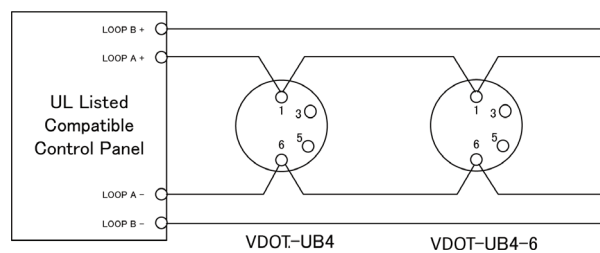
- Low profile, stylish appearance.
- Low monitoring current.
- OMNIVIEW™ 360° LED.
- Remote indicator output.
- Locking mechanism to avoid unauthorised removal.
- Supplied with protective dust cover.
- Address settable from 001 to 254 by a dedicated programmer.
- Corresponds to auto-test function of Velocity MMP control panel series.

■ Terminal Connections

The VDOT-H2 and VDOT-H2-H heat detectors all have three terminal connections and the terminals are configured as follows:

Terminal	Description
1	SLC Positive
6	SLC Negative
3	For Relay Base

■ Wiring



■ Mounting Base Models

Model	Description	Instruction Manuals	Diameter	Number of Terminals	VDOT-H2	VDOT-H2-H
VDOT-UB4	Standard Mounting Base	GLT-299-7-6	104 mm (4 Inch)	4	ü	ü
VDOT-UB4-6*	Larger Mounting Base	GLT-299-7-7	160 mm (6 Inch)	4	ü	ü
VDOT-S6 BASE	Sounder Mounting Base	GLT-299-7-10	160 mm (6 Inch)	5	ü	N/A
VDOT-STB-RL	Relay Mounting Base	GLT-299-7-9	104 mm (4 inch)	6	ü	N/A
VDOT-STB-SCI	Short Circuit Isolator Base	GLT-299-7-8	104 mm (4 Inch)	4	ü	N/A
VDOT-ADP**	Adaptor Mounting Plate	GLT-299-7-11	160 mm (6 Inch)	NONE	ü	N/A

* The Model VDOT-UB4-6 base is intended for applications where a 4 inch square or octagonal electrical junction box is required.

** The VDOT-ADP Adaptor Mounting Plate is intended for the VDOT-STB-RL Relay Mounting Base and VDOT-STB-SCI Short Circuit Isolator base for applications where a 4 inch square or octagonal electrical junction box is required.

■ Specifications

Specifications	VDOT-H2	VDOT-H2-H
Detector Element	Thermistor (Negative temperature coefficient)	
LED Visual Indicator	Stand-by - Flashing green LED Alarm - Solid red LED with flashing green	
Operating Voltage	20 VDC to 38 VDC Peak	
System Voltage	35 VDC	
Stand-by Current	200 µA	
Alarm Current (with red LED)	5 mA	
Fixed Alarm Temperature	57 °C (135 °F)	83 °C (181.4 °F)
Rate of Rise Detection	Responds to greater than 15 ° F (8.3 °C) / min	N/A
Operating Temperature	-10 °C to +55 °C (14 °F to 131 °F)	
Storage Temperature	-20 °C to +60 °C (-4 °F to 140 °F)	
Relative Humidity	≤ RH 95 % non-condensing	
Addressing Method	Soft addressing, Non-Volatile EEPROM	
Address	1 to 254 (decimal)	
Maximum Quantity Per Loop	254 units	
Material	IDEMITSUKOSAN R2200	
Dimensions	φ104 mm x H 42 mm (Detector head only) φ104 mm x H 57 mm (Detector head and VDOT-UB4 Base)	
Weight	100 g (Detector head only) 165 g (Detector head and VDOT-UB4)	
Standard	UL521	

All specifications are subject to change without any notice.
For more information, contact with VELOCITY.



Zeta Alarms Limited
72-78 Morfa Road, Swansea
SA1 2EN
Tel: +44 1792 455 175 FAX: +44 1792 455 176

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