

ADDRESSABLE MULTISENSORY DETECTOR
VDOT-PYH

Description

The VDOT-PYH is an attractively-styled, low profile combined photoelectric smoke and heat detector for use with the fire alarm control panel of Velocity MMP series.

This detector is an analog detector that has enabled each detector address to provide exact detector locations. The smoke sensitivity of this detector can be programmed using the control panel software to suit the environment. The detector sensitivity is continually monitored and reported to the panel.

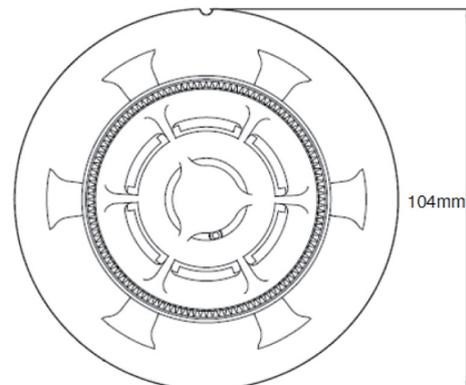
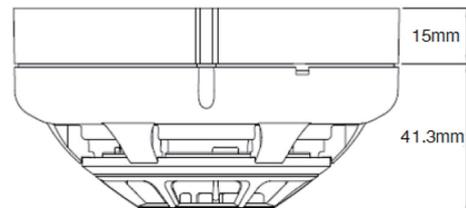
The VDOT-PYH has a new sophisticated smoke chamber design and an orange sensor LED which can provide the same sensitive detection regardless of the type of smoke.

This detector has a chemically etched, stainless steel insect screen therefore reducing the ingress of insects and airborne contaminants.

The VDOT-PYH initiates an alarm in response to both rapid rate-of-rise conditions and fixed heat (57°C). Heat portion incorporates a highly linear thermistor circuit, with the thermistor mounted externally. The specially designed cover protects the thermistor while allowing maximum air flow.

Features

- Responds well to both black and white smoke.
- Heat detector detects Rate of Rise and Fixed temperature.
- Well suited for sensitive environments.
- 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.
- Automatic sensitivity compensation.
- Adjustable sensitivity via control panel software.
- Corresponds to auto-test function of Velocity MMP series control panel.

Dimensions


■ Mounting Base Models

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

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

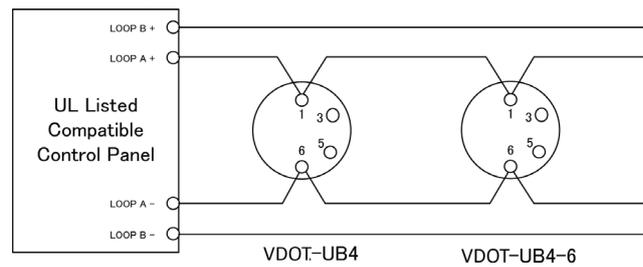
** The VDOT-ADP Adaptor Mounting Plate is intended for the VDOT-STB-RL Relay Mounting Base and VDOT -STB-SCI Short Circuit Isolator Base for applications where a 4 inch square or octagonal junction box is required.

■ Terminals

The VDOT-PYH detector is supplied as standard, with three terminals. The terminals on the VDOT-PYH detector head are configured as follows:

Terminal	Description
1	SLC Positive
6	SLC Negative
3	To activate the VDOT-STB-RL Relay Base

■ Wiring



■ Specifications

Specifications	VDOT-PYH	
Detector Element	Smoke	LED (Peak Wavelength 630 nm) Photodiode (High-Output, High-Speed Silicon Photodiode)
	Heat	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	
Sensitivity	0.66 %/Ft. to 3.49 %/Ft	
Fixed Heat Alarm Temperature	57 °C (135 °F)	
Rate of Rise Detection	Responds to Greater Than 8.3 °C (15 °F) / Min.	
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	105 g (Detector Head Only)	
	170 g (Detector Head and VDOT-UB4)	
Standard	UL268 and 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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