



Description

The EVA-PYH is an attractively-styled, low profile combined photoelectric **smoke and heat detector** for use with the fire alarm control panel of NFU-7000 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 EVA-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.

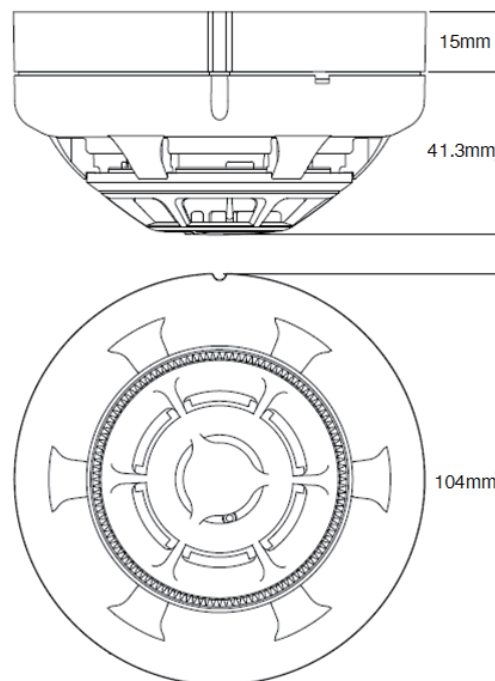
This detector has a chemically etched, **stainless steel insect screen** therefore reducing the ingress of insects and airborne contaminants.

The EVA-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 unauthorized 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 NFU-7000 series control panel

Dimensions



■ Mounting Base Models

Model	Description	Instruction Manuals	Diameter	Number of Terminals
EVA-UB4	Standard mounting base	DW1401959 Rev.K1	104 mm (4 inch)	4
EVA-UB4-6*	Larger mounting base	DW1401959 Rev.K1	160 mm (6 inch)	4
EVA-S6 Base	Sounder mounting base	DW1401960 Rev.K1	160 mm (6 inch)	5
EVA-STB-RL	Relay mounting base	DW1401853 Rev.K1	104 mm (4 inch)	6
EVA-STB-SCI	Short circuit isolator base	DW1401852 Rev.K1	104 mm (4 inch)	4
STBA-ADP**	Adapter mounting plate	DW1402124 Rev.K1	160 mm (6 inch)	NONE

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

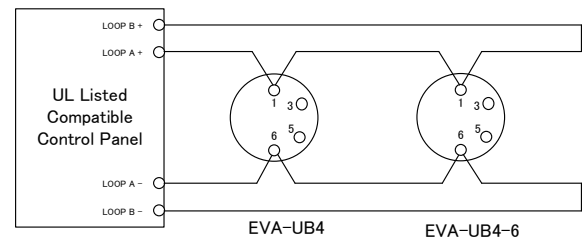
** The STBA-ADP Adapter Mounting Plate is intended for the EVA-STB-RL Relay Mounting Base and EVA-STB-SCI Short Circuit Isolator base for applications where a 4 inch square or octagonal electrical junction box is required.

Terminals

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

Terminal	Description
1	SLC Positive
6	SLC Negative
3	To activate the EVA-STB-RL relay base

Wiring



■ Specifications

Specifications	EVA-PYH		
Detector Element	Smoke	LED Photodiode	(Peak wavelength 630 nm) (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 μ A		
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	ϕ 104 mm x H 42 mm (Detector head only) ϕ 104 mm x H 57 mm (Detector head and EVA-UB4 Base)		
Weight	105 g (Detector head only) 170 g (Detector head and EVA-UB4)		
Standard	UL268 and UL521		

Distributed By

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

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