ZX832-3 Addressable Optical/Heat Multisensor Installation Sheet
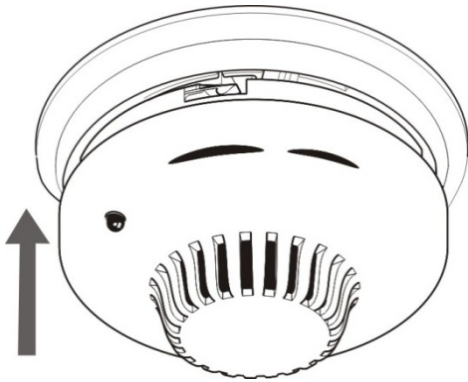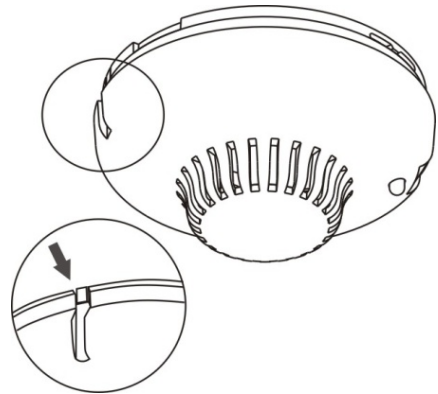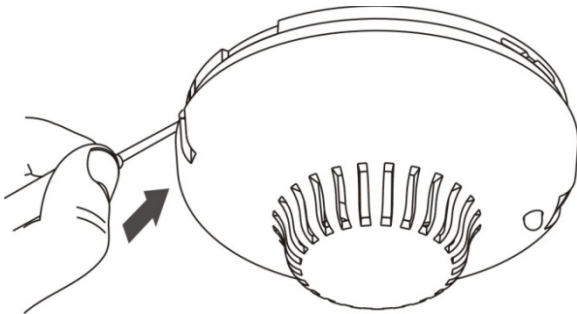
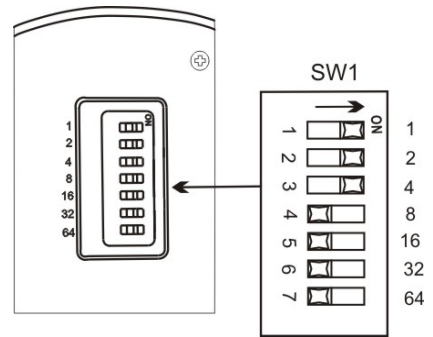**1**

2

3

4

EN: Installation Sheet

Description

The ZX832-3 Addressable Optical/Heat Multisensor integrates both high sensitivity smoke and thermal sensors, resulting in higher detection certainty. See Table 1 for a list of models. For a complete list of sensing profiles refer to Table 2.

Table 1: Models

Number	Description
ZX832-3P	Addressable Optical/Heat Multisensor, Polar White
ZX832-3B	Addressable Optical/Heat Multisensor, Black
ZX832-3S30	Addressable Optical/Heat Multisensor, Chubb

Figures

Figure 1: Inserting a detector

Figure 2: Position of the locking tab

Figure 3: Removing a locked detector

Figure 4: Setting the address

Installation

Note: For general guidelines on system planning, design, installation, commissioning, use and maintenance, refer to the EN 54-14 standard and local regulations.

To install a detector:

Insert the detector head into the mounting base and rotate it clockwise until it clicks into place (Figure 1).

The detector may be locked into the mounting base if required. To do this, remove the locking tab before installation shown in Figure 2.

After installation, ensure that the detector communicates with the control panel. Always test detectors after installation.

To remove a locked detector:

1. Insert a small screwdriver into the locking tab slot (Figure 3).

2. Press and rotate the detector anticlockwise.

Setting the address

The detector includes a seven-segment DIP switch (SW1) for assigning detector addresses. Each switch segment has a decimal value as shown in Figure 4. The address is the sum of all the switch segments in the ON position. The full DIP switch address range of 1 to 127 is shown on page 4.

For example, to select a detector address of 007, set SW1-1, SW1-2, and SW1-3 to the ON position and the remaining switch segments to the OFF position.

Locking base option

The detector is compatible with a range of bases (see "Specifications") and is easily installed by a simple twist and lock action.

Note: To prevent unauthorised removal of a detector from its base, an automatic locking tab is incorporated into all detector mouldings. If the tab is removed, detectors can only be released from their bases by use of a screwdriver, as shown in Figure 3. This locking option is applied at the system commissioning stage.

Maintenance and testing

Basic maintenance consists of a yearly inspection. Do not modify internal wiring or circuitry.

Automatic self-test

Sensor sensitivity, calibration and self-testing are carried out automatically by the fire panel. Removal or replacement of an incorrect sensing detector will be identified by the system and shown as a fault.

Specifications

Operating voltage	19.5 to 20.5 V pulsed, max. 4 V line loss

Current
    Standby
    Alarm
	
	600 µA
	700 µA

Coverage
    Smoke element
    Thermal element
	
	100 m^2
	50 m^2

IP Rating	IP32
Polarity sensitive	Yes
Compatible bases	Z-AUXD-2P ZP7-IB-P ZP7-RB1-P ZP7-SB1-P ZP7-SB1B, Black ZP755B-2P ZP755BV-4P ZP755BV-5P
Compatible accessories	Z-RL3 Remote LED unit Z-RL4 Remote LED unit

Operating environment
    Temperature
    Storage temperature
    Relative humidity
	
	−10 to +85°C
	−20 to +70°C
	20 to 95% noncondensing

Dimensions (Ø x H)	106 × 58 mm
Weight	105 g

Regulatory information

This section includes both regulatory information and a summary on the declared performance according to the Construction Products Regulation 305/2011. For detailed information refer to the product Declaration of Performance.

Certification	CE
Certification body	0370
Declaration of Performance number	360-4211-1099
Year of first CE marking	14
Product identification	ZX832-3
Intended use	See DoP point 9
Essential characteristics	See DoP point 9
Manufacturer	United Technologies Safety System Co., Ltd. 80, Changjiang East Road, QETDZ, 066004 Qinhuangdao, HEBEI, China Authorized EU manufacturing representative: UTC Fire & Security B.V. Kelvinstraat 7, 6003 DH Weert, Netherlands
	2012/19 /EU (WEEE directive): Products marked with this symbol cannot be disposed of as unsorted municipal waste in the European Union. For proper recycling, return this product to your local supplier upon the purchase of equivalent new equipment, or dispose of it at designated collection points. For more information see: www.recyclethis.info.

Contact information

For contact information, see www. utcfssecurityproducts.eu.

Table 2: Sensing profiles

Profile	Sensitivity		Notes
1	Smoke only - High	Smoke only response, Sensitivity 1	Very high sensitivity
2	Smoke only - Normal	Smoke only response, Sensitivity 2 (std)	Normal sensitivity
3 [1]	Smoke only - Medium	Smoke only response, Sensitivity 3	Medium sensitivity [1]
4	Smoke only - Low	Smoke only response, Sensitivity 4	Low sensitivity
5 [1]	Heat only - High	Heat only response, Sensitivity 1: 58ºC ROR	Standard thermal sensitivity with rate of rise [1]
6	Heat only - Medium	Heat only response, Sensitivity 2: 58ºC FT	Standard thermal sensitivity
7	Heat only - Low	Heat only response, Sensitivity 3: 75ºC ROR	Low thermal sensitivity with rate of rise
8	Heat only- Low Option 2	Heat only response, Sensitivity 4: 75ºC FT	Low thermal sensitivity
9	Smoke High/ Heat Medium	Smoke Sensitivity 1, Heat 1: 58ºC ROR	Early smoke response, Early thermal response
10	Smoke High/ Heat Medium	Smoke Sensitivity 1, Heat 2: 58ºC FT	Early smoke response, Medium thermal response
11	Smoke High/, Heat Low	Smoke Sensitivity 1, Heat 3 - 75ºC ROR	Early smoke response, Low thermal response
12	Smoke High/, Heat Low Option 2	Smoke Sensitivity 1, Heat 4: 75ºC FT	Early smoke response, Slow thermal response
13	Smoke Normal/ Heat High	Smoke Sensitivity 2, Heat 1: 58ºC ROR	Normal smoke response, Early thermal response
14	Smoke Normal/ Heat Medium	Smoke Sensitivity 2, Heat 2: 58ºC FT	Normal smoke response, Medium thermal response
15	Smoke Normal/ Heat Low	Smoke Sensitivity 2, Heat 3: 75ºC ROR	Normal smoke response, Low thermal response
16	Smoke Normal/ Heat Low Option 2	Smoke Sensitivity 2, Heat 4 : 75ºC FT	Normal smoke response, Slow thermal response
17	Smoke Medium/ Heat High	Smoke Sensitivity 3, Heat 1: 58ºC ROR	Medium smoke response, Early thermal response
18	Smoke Medium/ Heat Medium	Smoke Sensitivity 3, Heat 2: 58ºC FT	Medium smoke response, Medium thermal response
19	Smoke Medium/ Heat Low	Smoke Sensitivity 3, Heat 3: 75ºC ROR	Medium smoke response, Low thermal response
20	Smoke Medium/ Heat Low Option 2	Smoke Sensitivity 3, Heat 4: 75ºC FT	Medium smoke response, Slow thermal response
21	Smoke Low/ Heat High	Smoke Sensitivity 4, Heat 1: 58ºC ROR	Slow smoke response, Early thermal response
22	Smoke Low/ Heat Medium	Smoke Sensitivity 4, Heat 2: 58ºC FT	Slow smoke response, Medium thermal response
23	Smoke Low/Heat Low	Smoke Sensitivity 4, Heat 3: 75ºC ROR	Slow smoke response, Low thermal response
24	Smoke Low/ Heat Low Option 2	Smoke Sensitivity 4, Heat 4: 75ºC FT	Slow smoke response, Slow thermal response
25	Enhanced Clean Room	Dual detector, Smoke Sensitivity High Heat 58ºC ROR Verification 5 seconds	Fast smoke response, Fast thermal response
26	Enhanced Normal	Dual detector, Smoke Sensitivity Normal Heat 58ºC ROR Verification 20 seconds	Medium smoke response, Medium thermal response Medium time response
27	Enhanced Industrial	Dual detector, Smoke Sensivity Low Heat Low sensitivity Verification 30 seconds	Slow smoke response, Slow thermal response

[1] The ZX832-3 has been certified to comply with 03 and 05 sensing profiles.

1   2   3   4   5   6   7
8   9   10   11   12   13   14
15   16   17   18   19   20   21
22   23   24   25   26   27   28
29   30   31   32   33   34   35
36   37   38   39   40   41   42
43   44   45   46   47   48   49
50   51   52   53   54   55   56
57   58   59   60   61   62   63
64   65   66   67   68   69   70
71   72   73   74   75   76   77
78   79   80   81   82   83   84
85   86   87   88   89   90   91
92   93   94   95   96   97   98
99   100 101 102 103 104 105
106 107 108 109 110 111 112
113 114 115 116 117 118 119
120 121 122 123 124 125 126
127