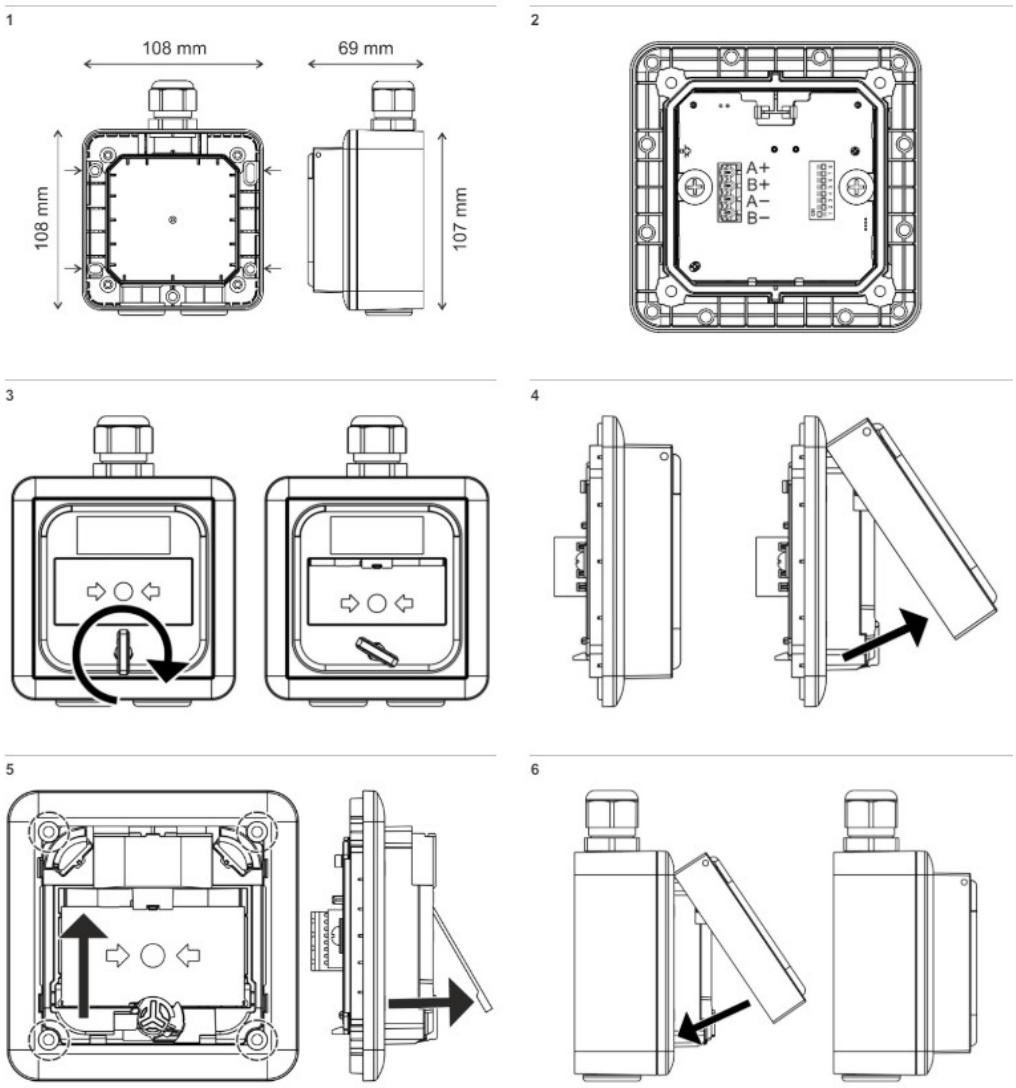
KIDDE KE-DM3010R-IP Excellence Series Intelligent Addressable Instruction Manual

Excellence Series Intelligent Addressable Weatherproof Manual Call Point Installation Sheet

Contents

KE-DM3010R-IP Excellence Series Intelligent Addressable



Description

The 3000 Series Intelligent Addressable Weatherproof Manual Call Point is designed for outdoor use and supports the Kidde Excellence protocol.
All units are supplied with a resettable element – this can be replaced with a breakable element, if required (order number N-MC-FE). See “Replacing the resettable element” on page 3.
The series includes the following models.

Model	Description
KE-DM3010R-IP [1]	Red intelligent addressable weatherproof manual call point
KE-DM3110R-IP [1]	Red intelligent addressable weatherproof manual call point with in tegrated short circuit isolator

[1] Also available in green.

Figures

Installation

Caution: This product must be installed and maintained by qualified personnel adhering to all local or national installation requirements and any other applicable regulations.

Addressing

Set the device address before installation using the DIP switch on the back of the front assembly (see Figure 2). The address range is 001-128. See the table on the last page of this publication for DIP switch positions for each address.

Note: If you change the device address after installation, you must disconnect the device from the loop power for at least one second and then reconnect it for the new address to be recognised.

Installation

The manual call point is surface mounted. Remember to remove the protective dust cover after commissioning.

Note: The dust cover may also be used to indicate when the unit is not operational (for example, before commissioning, during maintenance, when disabled, etc.)

To surface mount the manual call point:

1. Screw the supplied cable gland and sealing plugs into the three threaded cable knockouts in the backbox.
   Ensure that the cable gland and plugs include the rubber seal.
2. Fix the backbox onto the wall using 4 × M4 screws (not supplied) and feed the loop cable through the cable gland.
   Depending on your installation requirements, the backbox can be installed with two cable knockouts at the top and one at the bottom or with one cable knockout at the top and two at the bottom.
   See Figure 1 for the location of the mounting holes.
3. Connect loop cable to the supplied terminal block, and then plug the terminal block into the PCB connector on the back of the front assembly (see Figure 2).
   Use the supplied cable link to test cable continuity before the terminal block is plugged into the PCB connector on the back of the front assembly.
   See “Wiring” below for terminal block connections and loop cable specifications.
4. Unlock and remove the front cover.
   To unlock the front cover, insert the key and turn it clockwise (two clicks), then pull the cover outwards from the bottom to remove it (see Figure 3 and Figure 4).
5. Fix the front assembly to the backbox using the 4 screws supplied with the unit.
   See Figure 5 for the location of the screw holes.
6. Replace the front cover (see Figure 6).
   Turn the key anticlockwise (two clicks) to lock the cover, and then remove the key.

Finally, test the manual call point (see “Testing” on page 3).

Wiring

For optimal system performance, use 0.13 to 3.31 mm² (0.40 to 2.05 mm) twisted-pair cable with a maximum length of 2 km.

Wire the unit as described below. Observe the indicated polarity.

Terminal	Description
A+	Positive line (+)
B+	Positive line (+)
A–	Negative line (–)
B–	Negative line (–)

Device status

The device status is indicated by two colour changing LEDs on the front of the unit, as shown in the table below.

State	Indication
Alarm	Steady red LEDs [1]
Isolation active	Steady yellow LEDs [2]
Fault	Flashing yellow LEDs
Communicating	Flashing green LEDs

[1] This may also indicate an active Locate Device command from the control panel.
[2] KE-DM3110-IP models only.

Maintenance and testing

Maintenance
The unit should be maintained and tested according to local or national requirements and any other applicable regulations. Do not modify internal wiring or circuitry.
Testing
To activate an alarm, push the resettable element or turn the key clockwise (one click). To reset the device, turn the key anticlockwise (one click). Reset the control panel after testing.
Replacing the resettable element
Replace the resettable element (or add the breakable element) as follows:

1. Unlock and remove the front cover as described in “Installation” on page 2.
2. Push the element up, and then pull it out (see Figure 5).
3. Replace the resettable element (or add the breakable element, if required).
4. Replace the front cover.

Analogue values
Analogue values for diagnosing and troubleshooting device status are shown in the table below.

Value	Device Status
32	Normal
128	Alarm

Specifications

Electrical

Operating voltage	17 to 38 VDC
Current consumption Standby KE-DM3010-IP KE-DM3110-IP Alarm KE-DM3010-IP KE-DM3110-IP	 180 µA 200 µA 2.8 mA 2.8 mA

Isolation

The following isolation specifications apply to KE-DM3110-IP models with an integrated short circuit isolator.

Current consumption (isolation active)	1.5 mA
Isolation voltage Minimum Maximum	 14 VDC 15.5 VDC
Reconnect voltage Minimum Maximum	 14 VDC 15.5 VDC
Rated current Continuous (switch closed) Switching (short circuit)	 1 A 1 A
Leakage current	1 mA max.
Series impedance	0.06 Ω max.
Number of isolators per loop	128 max.
Number of devices between isolators	32 max.

Mechanical and environmental

IP rating [1]	IP67
Backbox cable knockouts Top/bottom [2]	1 × threaded knockout (MK20) 2 × threaded knockout (MK20)
Wire size Minimum Maximum	 0.13 mm² (0.40 mm) 3.31 mm² (2.05 mm)
Operating environment Operating temperature Storage temperature Relative humidity	 –25 to +72°C –25 to +72°C 10 to 95% (noncondensing)
Colour Red Green	 RAL3028 RAL6024
Material Body Contacts	 ABS, PC, PMMA, POM Nickel plated H59, tin plated QSn6.5-0.1, tin plated H65
Weight [3]	267 g
Dimensions [3]	108 × 108 × 69 mm

1. When used with the supplied cable gland and plugs.
2. Top/bottom location subject to installation orientation.
3. Including the backbox, excluding cable gland and plugs.

Regulatory information

This section provides a summary on the declared performance according to the Construction Products Regulation (EU) 305/2011 and Delegated Regulations (EU) 157/2014 and (EU) 574/2014.
For detailed information, see the product Declaration of Performance (available at **firesecurityproducts.com**).

Conformity	CE
Notified/Approved body	370
Manufacturer	Carrier Safety System (Hebei) Co. Ltd., 80 Changjiang East Road, QETDZ, Qinhuangdao, Hebei, China 066004. Authorized EU manufacturing representative: Carrier Fire & Security B.V., Kelvinstraat 7, 6003 DH Weert, Netherlands.
Year of first CE marking	2022
Declaration of Performance number [1] KE-DM3010-IP KE-DM3110-IP	03-0210-360-1083 03-0210-360-1093
EN 54 [1]	EN 54-11 Type A (Outdoor Use) EN 54-17:2005
Product identification [1]	KE-DM3010R-IP, KE-DM3110R-IP, KE-DM3010RS18-IP, KE-DM3110RS18IP, KE-DM3010RS27-IP, KE-DM3110RS27-IP
Intended use	See the product Declaration of Performance
Declared performance	See the product Declaration of Performance
	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 localsupplier upon the purchase of equivalent new equipment, or dispose of it at designated collection points. For more information see: recyclethis.info.

[1] The Declaration of Performance only covers red manual call points.
Only red manual call points are covered by EN 54-11 and EN 54-17.

Contact information and product documentation

For contact information or to download the latest product documentation, visit **firesecurityproducts.com**.

Product warnings and disclaimers

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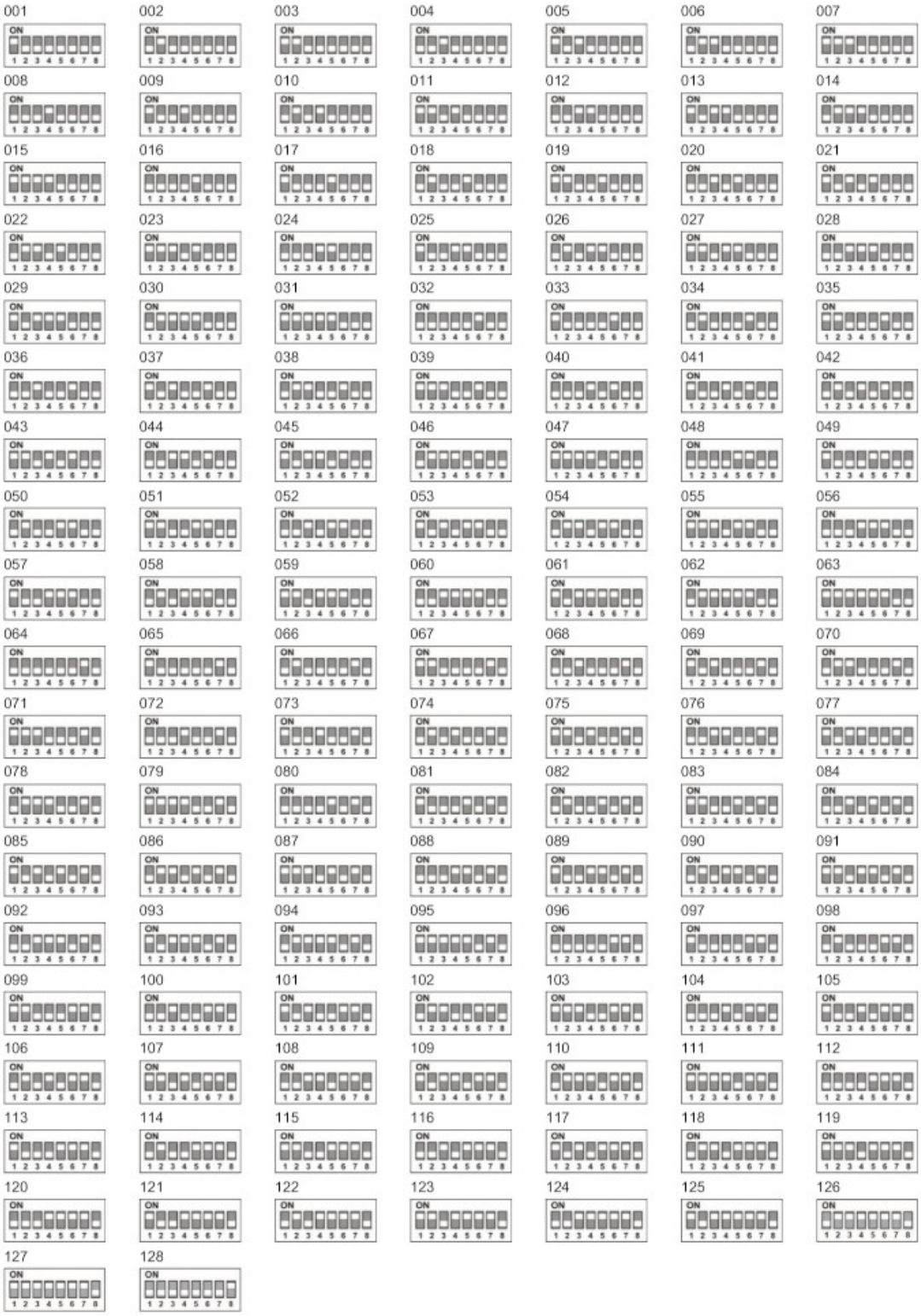

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Documents / Resources

KIDDE KE-DM3010R-IP Excellence Series Intelligent Addressable [pdf] Instruction Manual
KE-DM3010R-IP Excellence Series Intelligent Addressable, KE-DM3010R-IP, Excellence Series Intelligent Addressable, Series Intelligent Addressable, Intelligent Addressable, Addressable

References

- **User Manual**