System Sensor®

R5A-RF
RADIO CALL POINT INSTALLATION AND MAINTENANCE INSTRUCTIONS

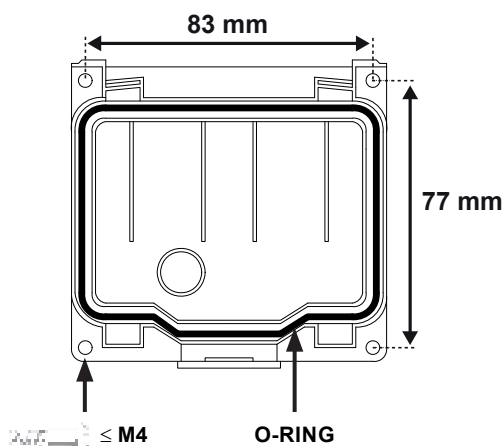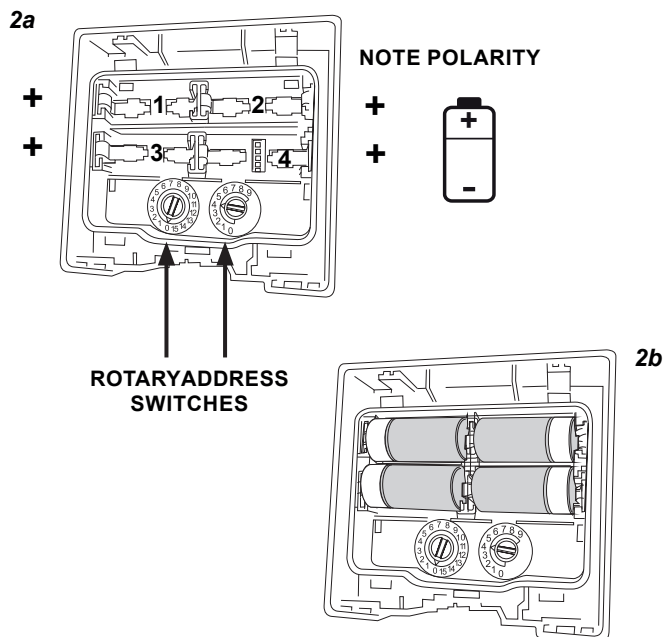*Figure 1: Installing the Backplate*

Figure 2: Installing the Batteries and Location of the Rotary Address Switches

2a

NOTE POLARITY

ROTARY ADDRESS SWITCHES

2b

DESCRIPTION

The R5A-RF radio call point is a battery operated RF device designed for use with the M200G-RF radio gateway, running on an addressable fire system (using a compatible proprietary communication protocol).

It is a waterproof manual call point, combined with a wireless RF transceiver and fits onto a wireless backplate.

This device conforms to EN54-11 and EN54-25. It complies with the requirements of 2014/53/EU for conformance with the RED directive.

SPECIFICATIONS

Supply Voltage:	3.3 V Direct Current max.
Standby Current:	120 µA @ 3V (typical in normal operating mode)
Red LED current max: 2mA	
Re-sync time:	35s (max time to normal RF communication from device power on)
Batteries:	4 X Duracell Ultra123 or Panasonic Industrial 123
Battery Life:	4 years @ 25°C
Radio Frequency:	865-870 MHz;
RF output power:	14dBm (max)
Range:	500m (typ. in free air)
Relative Humidity:	10% to 93% (non-condensing)
IP Rating:	IP67

INSTALLATION

This equipment and any associated work must be installed in accordance with all relevant codes and regulations.

Figure 1 details the installation of the backplate.

Spacing between radio system devices must be a minimum of 1m

Set the loop address on the call point - see section below.

Figure 2 details the battery installation and the location of the address switches.

Important
Batteries should only be installed at the time of commissioning

Warning
Observe the battery manufacturer's precautions for use and requirements for disposal. Possible explosion risk if incorrect type is used.

Do not mix batteries from different manufacturers. When changing the batteries, all 4 will need to be replaced.

Using these battery products for long periods at temperatures below -20°C can reduce the battery life considerably (by up to 30% or more)

Screw the backplate into position on the wall using the fixing holes provided. Ensure that the O-ring seal is correctly seated in the channel on the rear of the device. Place the call point squarely over the backplate and carefully push the device until the locating clips have engaged.

Fit and tighten the screws provided into the 5 screw holes (2 on the top and 3 on the underside of the call point) to ensure the unit is fixed to the backplate (see figure 3 overleaf).

Device Removal Warning - An alert message is signalled to the CIE via the gateway when the call point is removed from its backplate.

Removing the Call Point From the Backplate

Remove the 5 screws (2 on the top and 3 on the underside) from the call point (see Figure 3). With two hands, grip both sides of the call point. Pull the lower portion of the call point away from the wall, then pull and twist the top of the call point to release it fully from the base. Note: If the back plate has been fitted onto a call point (but not to a wall) it may be helpful to release the lower part of the call point as shown in Figure 4.

The O-ring should be replaced when refitting or replacing the waterproof cover. The use of lubricants, cleaning solvents or petroleum based products should be avoided.
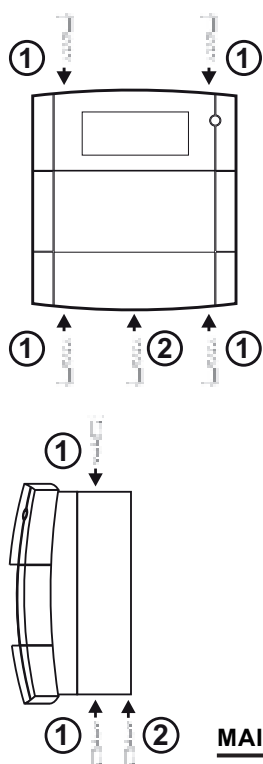
Figure 4: Removing the Backplate from the Call Point

SETTING THE ADDRESS

Set the loop address by turning the two rotary decade switches on the rear of the call point below the battery tray (see figure 2a), using a screwdriver to rotate the wheels to the desired address. The call point will take one module address on the loop. Select a number between 01 and 159 (Note: The number of addresses available will be dependent on panel capability, check the panel documentation for information on this).

LED INDICATORS

The radio call point has a three colour LED indicator that shows the status of the device:

Call Point status LEDs

Call Point Status	LED State	Meaning
Power-on initialisation (no fault)	Long Green pulse	Device is un-commissioned (factory default)
	3 Green blinks	Device is commissioned
Fault	Blink Amber every 1s.	Device has an internal trouble
Un-commissioned	Red/Green double-blink every 14s (or just Green when communicating).	Device is powered and is waiting to be programmed.
Sync	Green/Amber double-blink every 14s (or just Green when communicating).	Device is powered, programmed and trying to find/join the RF network.
Normal	Controlled by panel; can be set to Red ON, periodic blink Green or OFF.	RF communications is established; device is working properly.
Idle (low power mode)	Amber/Green double-blink every 14s	Commissioned RF network is in standby; used when the gateway is powered off.

MAINTENANCE

When changing the batteries, all 4 will need to be replaced.

To test the call point, see Figure 5.

To replace the glass element or reset the resettable element, see Figure 6.

PROGRAMMING

To load network parameters into the RF call point, it is necessary to link the RF gateway and the RF call point in a configuration operation. At commissioning time, with the RF network devices powered on, the RF gateway will connect and programme them with network information as necessary. The RF call point then synchronises with its other associated devices as the RF mesh network is created by the Gateway. (For further information, see the *Radio Programming and Commissioning Manual* - ref. D200-306-00.)

NOTE: Do not run more than one interface at a time to commission devices in an area.

Figure 5: To Test the Call Point

Figure 6: To Replace / Reset the Element
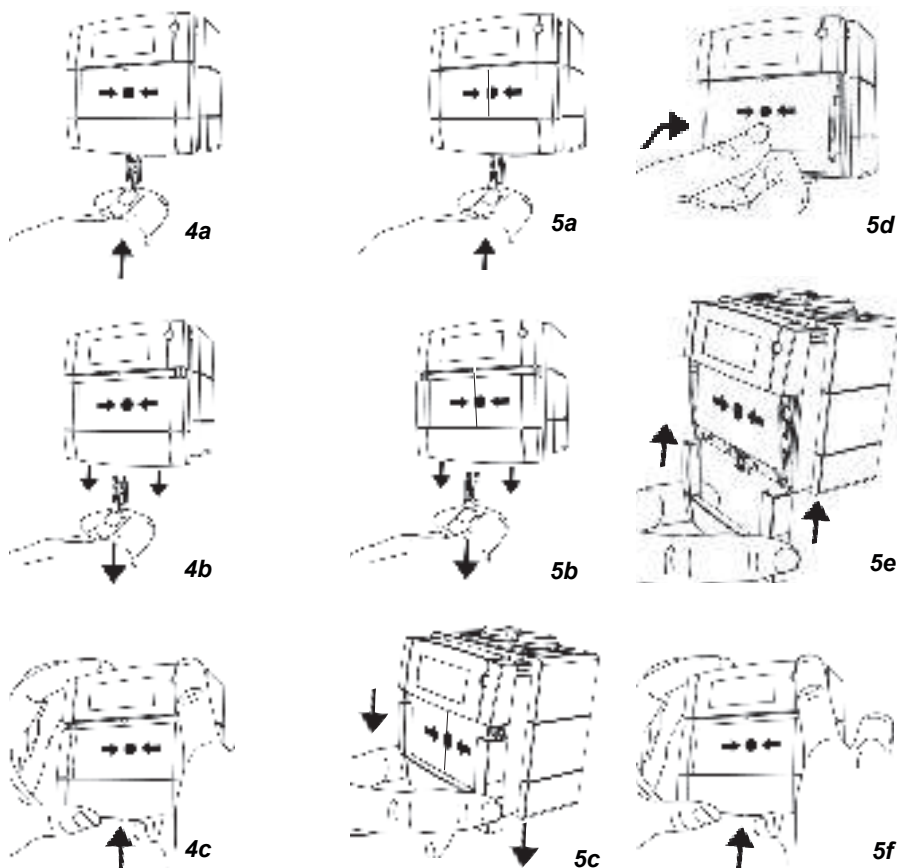
Patents Pending

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Honeywell Products and Solutions Sàrl
(Trading as System Sensor Europe)
Zone d'activités La Pièce 16
CH-1180 ROLLE, Switzerland

EN54-25: 2008 / AC: 2010 / AC: 2012
Components Using Radio Links
EN54-11: 2001 / A1: 2005
Manual Call Points for use in fire detection and fire alarm systems for buildings

EU Declaration of Conformity
Hereby, Honeywell Products and Solutions Sàrl declares that the radio equipment type R5A-RF is in compliance with directive 2014/53/EU
The full text of the EU DoC can be requested from: HSFREDDoC@honeywell.com