Ampac

Fire detection and evacuation solutions that save lives.

Reach Wireless Manual Call Point

Features

- Resettable Element
- Bi-directional wireless communication
- Dual channel redundancy
- Easy scan & link programming
- Ten year battery life

Description

The Reach Wireless Manual Call Point (MCP) is a fully addressable device which communicates with Reach XP95 Loop Interface Module located on the detection loop. The MCP has a resettable plastic element, which displays a drop-down warning indicator when operated. A key is supplied with the call point for reset and case opening. Two integral lithium batteries power the device providing a typical lifespan of 10 years. A transparent cover protects against accidental operation and a weatherproof enclosure is also available for outdoor applications and harsh environments.

Operating Principles

The Reach Wireless Manual Call Point is a wall-mounted device that, when activated, initiates an alarm on the fire detection system. Following activation, the call point can be reset using the key provided, making it ready for reactivation once the fire system itself has been reset.

Device Addressing

Device addressing is handled by the Reach Wireless XP95 Loop-Interface Module.

Devices are soft-addressed automatically when pairing with the XP95 Loop Interface Module and can be changed manually.

Hard-addressing using XPERT cards are not required.

Communication

Reach Wireless devices use 'radio-frequency' wireless communication to connect to the XP95 Loop Interface Module.

The Loop Interface translates the wireless communication into wired XP95 protocol communication, with each device addressable individually by the fire control panel. Refer Loop-Interface Module datasheet for further information.

Tamper Detection

Reach Wireless devices contain an anti-tamper mechanism. In the event of removal from its base, it sends a tamper detection message to the Loop Interface Module which in turn sends it to the fire control panel.

Tamper detection is not signaled visually by the device LED.

Specifications

Communication Range between Loop-Interface and Devices	100 m (in open space)
Field Device Radio Frequency Channel Pairs	22 pairs
Radiated Power	14 dBm (25 mW)
Battery Type	2x VARTA CR123A Lithium 3 V, 1250mAh typical
Battery Lifespan	10 years in normal operation with good signal strength (no dropped messages)
Operating Temperature	-10°C to +55°C
Maximum Relative Humidity (non-condensing)	95%
IP Rating	IP 30
Standards and approvals	EN54-11, EN54-25 AS7240.11, AS7240.25
Dimensions	88 mm diameter x 87 mm height x 61 mm depth
Weight (including base and batteries)	160 g

Item Numbers

	Australia	International
Reach Manual Call Point	4105-5101	RW1900-901APO

All data is supplied subject to change without notice. Specifications are typical at 24 V, 25°C and 50% RH unless otherwise stated.

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EMC Directive 2014/30/EU

Reach Wireless Manual Call Point complies with the essential requirements of the EMC Directive 2014/30/EU, provided that it is used as described in this datasheet.

A copy of the Declaration of Conformity is available on request.

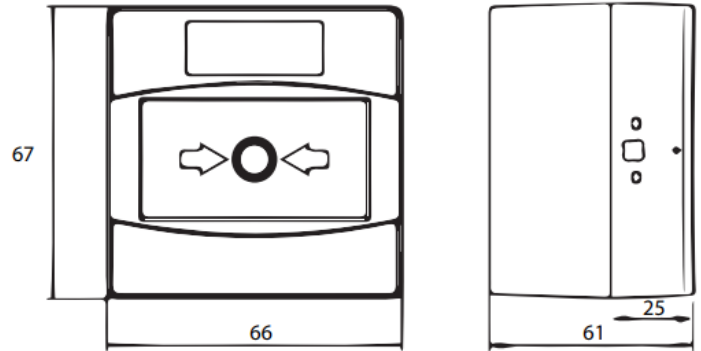## Construction Products Regulation (EU) 305/2011

The Reach Wireless Manual Call Point complies with the essential requirements of the Construction Products Regulation (EU) 305/2011.

A copy of the Declaration of Performance is available on request.

Status LED

When one or more faults are present in the system they are displayed on the Reach XP95 Loop Interface LCD and the device fault LED itself is switched On (yellow). The LCD is ON only when the tamper switch is not activated (cover open) regardless of the configuration of the translator tamper fault. See table 1 for device LED status meanings.

Dimensions

Table 1 - Reach Wireless Device Status & LED Indication	
Device Status	**LED Indication**
Power Up	Blinks green four times
Power Up (dip-switch ON)	Blinks red four times
Entering Wake-Up	Blinks alternatively green/red four times
Link Success	Blinks green four times, then repeats
Link Failure	Enters wake-up mode and signals 'Entering wake-up mode' following this failure
Normal Condition	LED off
Alarm	Red 1s, period 2s
Battery Faults	LED off
Tamper Fault	LED off
Replaced	Blinks amber two times

Approvals