



Clipsal FireTek® Smoke Alarms

Photoelectric Smoke Alarms



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CLIPSAL
by Schneider Electric





Your customers' investment for life

Clipsal Fire Tek Smoke Alarms are a small investment for your customers, considering they protect their most valuable assets; family, friends and home.

The high-quality, robust electronics are designed for reliability, to ensure early detection and warning from hazardous smoke and fire. All Clipsal Smoke Alarms incorporate photoelectric detection technology, which reliably detects smoke from smouldering fires – the most common and highest risk type of fire in residential environments.

Complying with the code is a must

The Australian Building Code mandates all new homes must have AS3786:2014 compliant smoke alarms installed and connected to mains power. All existing homes must have a working smoke alarm, we recommend a 10 year Lithium battery powered alarm as minimum protection.

By having working photoelectric smoke alarms installed, your customers can be confident that they have the best chance at preventing the devastating effects of house fires.

Smoke alarms to suit every Aussie home

All Clipsal Fire Tek Smoke Alarms are ideal for any residential environment.

The range includes surface-mount options, or for something with a little more style, a low-profile, flush-mounted option is also available.

Easy to fit, hard to beat

On the 240V surface mount models (755PSMA4 and 755RLPSMA4), the innovative, removable hinged cover makes accessing the terminals and backup battery with one hand a breeze. Multiple mounting points and ample wiring space provide greater flexibility, while fit-off contacts automatically provide power to the smoke alarm, once installed.

The 755LPSMA4 Lithium battery powered smoke alarm is slim, stylish and simple to install. It incorporates a sealed-in 10 yr lithium battery meaning there are no batteries to replace each year. It also has built-in wireless interconnection for full home protection.

The flush mount alarm (755PFM4) has an easy-to-install mounting base using a 90mm cut out and large wiring terminals with ample space. The alarm unit just clips in and then out again for maintenance.

You can mix old with the new too. The Generation 4 surface mount Smoke Alarms are compatible with Clipsal's 755 series mounting bases. This makes retrofitting quick and easy because when they reach their end of life at 10 years, a new base doesn't have to be installed. Also all Fire Tek alarms, new and old are all fully interconnectable with each other.





Stylish design

Today's modern homes combine technology with taste, so smoke alarms should be of the highest quality, while complementing the interior of any home. Clipsal Smoke Alarms combine quality with style, to complement any interior décor and provide superior protection for your customers. They're modern, they're sleek and they're stylish!

If your customers want a subtle look that doesn't detract from their downlights, the flush-mount option (755PFM4) is just what they need. It's 60% smaller and 40% thinner than regular smoke alarms, so it looks right at home amongst any downlights.

Innovative Remote Test/Hush Feature

Your customers now have the option of a remote test/hush feature, which is built-in to the optional 755RB and 755RFB2 mounting bases. Testing or hushing their smoke alarm is now safer and easier than ever. Simply wire the base to any momentary switch on any Clipsal switch plate.

If activated, the smoke alarm will automatically resume normal operation after about 10 minutes. If a fire hazard is present and smoke continues to rise, while the smoke alarm is in hush mode, it will reactivate.

Your best connection in fire safety

The Clipsal 240V Smoke Alarm range can be hard-wire interconnected with up to 40 units, but if you're needing to add a new alarm and/or find it challenging to run interconnect cables, the wireless interconnect option is a very handy feature.

Available for use with 240V surface-mount models, the 755RFB2 Wireless Mounting Base allows up to 40 alarms to be wirelessly interconnected. The 755RFB2 also wirelessly interconnects with the 755LP SMA4 Lithium battery smoke alarm providing complete protection for every home.

If you require connectivity with third-party hardware, such as security systems or emergency exit lighting, an integral isolated relay is available within the 755RB surface-mounting base. The relay function is configurable to operate if any interconnect alarm is activated or if only the local alarm is activated. This provides a method of identifying and communicating to other systems which interconnected alarm has actually detected smoke.





Features and benefits

- Flush-mount and surface-mount options available
- Stylish, modern housing
- Photoelectric technology provides maximum protection against smouldering fires
- Mains-powered, 220-240V AC and 10 yr lithium battery powered models
- Rechargeable lithium battery backup option with 240V surface-mount alarms
- 9V DC battery backup (included on 755PSMA4 and 755PFM4 models)
- Smoke alarms clip into existing mounting bases (755PSMA/2 or 755SMA – Surface, and 755FM or 755PFM – Flush)
- Robust modern design for superior performance and resilience
- Built in test/hush buttons and optional remote test/hush function when using 755RB and 755RFB2 mounting bases
- Loud alarm indication: 85dB at three metres
- Interconnect up to 40 units
- Wirelessly interconnect between lithium battery alarms and surface mount 240V alarms using 755RFB2 wireless base
- Optical sensing chamber with integral insect screen
- Connect third-party devices, i.e. lighting, security alarms and home automation systems, using optional 755RB relay mounting base or 756 module

Certified fire safety, guaranteed

All Clipsal Smoke Alarms are manufactured to the highest possible quality. They meet all relevant Australian Standards and are ActiveFire listed to comply with the Building Code of Australia. They also come with a 5-year limited warranty and carry the "Five Ticks StandardsMark™" SAI Global Certification.



Why choose photoelectric?

A significant amount of home fires occur each year in Australia. According to fire authorities, fire hazards present the highest risk when occupants are sleeping. The most likely type of fire encountered while occupants are sleeping is a smouldering fire.

Our sense of smell decreases when sleeping, so early warning of any fire is imperative, to allow enough time to escape. Photoelectric smoke alarms provide the earliest detection of a fire hazard in the home, so occupants can escape quickly and safely.

Photoelectric smoke alarms are also recommended by Australian Fire Departments and contain no radioactive material, making them easy to dispose of and better for the environment.

Smoke alarm maintenance

Like other electrical accessories in the home, smoke alarms require maintenance to ensure efficient and effective operation.



Test the smoke alarm and battery every month

It's important that the smoke alarm and battery backup is checked regularly, to ensure the best protection for any home. To test, press the *Test/Hush* button on the unit, or via the remote *Test/Hush* wall switch (remote function only available on 240V surface mounting bases).

Checking the battery should be done with the mains power switched off. The alarm should sound, indicating that the battery condition is acceptable. If the unit fails to respond, the battery should be replaced without delay.

Ensure to clean the alarm from dust or insect ingress each month to avoid any unwanted false alarms.

Replace the battery every year

Your customers should replace smoke alarm batteries once a year, to ensure that they work correctly. Recommend to them they choose a common date, which occurs every year and is easy to remember (i.e. birthdays, end/start of daylight saving).

Or install the Lithium battery powered alarm or 240V Rechargeable lithium alarm which do not require battery replacement.

Replace the smoke alarm every 10 years

All smoke alarms have a limited service life, of 10 years. After that period, the entire smoke alarm unit must be replaced with a new one.

Smoke alarms in the home

The Building Code of Australia mandates the installation of smoke alarms located outside of sleeping areas and at least one on each level of every new home (interconnected) – but is one enough? And where should it/they be located to ensure correct operation? (Always check local fire safety regulations for any requirements above that of the building code.)

In QLD, every new home with building approval granted after 1st January 2017, must have photoelectric mains powered smoke alarms installed in every bedroom, and be interconnected. By the 1st of January, 2027 in QLD all existing homes need to have either lithium battery alarms or mains powered alarms installed. Clipsal recommends multiple smoke alarms to be installed to provide optimum protection for your family.





Australia-wide, interconnected smoke alarms are mandatory for new homes as of May 2014.

Smoke alarm locations require careful consideration. Avoid certain areas that could cause false alarms or nuisance tripping. It is recommended to install an alarm in every room (excluding kitchen, laundry and bathrooms) and interconnect them for maximum protection.





Smoke Alarm Specifications

Model	755PSMA4	755RLPSMA4	755PFM4	755LPSMA4
				
Main Power Source:	220- 240 V a.c., 50 Hz	220-240 V a.c., 50 Hz	220-240 V a.c. 50Hz	Sealed-in lithium battery
Secondary Power Source:	9 V d.c. carbon zinc or alkaline battery	Rechargeable lithium battery (sealed in)	9V d.c. carbon zinc or alkaline battery	N/A
Operating Current:	≤40 mA	≤40 mA	≤ 40mA	< 70mA @ 3V
Standby Power:	< 3mW	< 3mW	< 1mW	< 0.04mW
Battery Life:	One year	Ten years	One year	Ten years
Terminal Provisions:	Active, Neutral, Loop and Interconnect terminals, each accommodates 2 × 1.5 mm ²	Active, Neutral, Loop and Interconnect terminals, each accommodates 2 × 1.5 mm ²	Active, Neutral, Loop and Interconnect terminals, each accommodates 3 x 2.5mm ²	N/A
Sensing Type:	Photoelectric. This alarm contains NO radioactive material	Photoelectric. This alarm contains NO radioactive material	Photoelectric. This alarm contains NO radioactive material	Photoelectric. This alarm contains NO radioactive material
Sensing Chamber:	Optical sensing chamber with 0.6mm stainless steel mesh (for insect ingress protection)	Optical sensing chamber with 0.6mm stainless steel mesh (for insect ingress protection)	Optical sensing chamber with 0.6mm stainless steel mesh (for insect ingress protection)	Optical sensing chamber with 0.6mm stainless steel mesh (for insect ingress protection)
Interconnecting:	40 alarms over 150 metres maximum (40 alarms wirelessly using 755RFB2)	40 alarms over 150 metres maximum (40 alarms wirelessly using 755RFB2)	40 alarms over 150 metres maximum	Built-in wireless interconnection (up to 40 alarms over 50m or 40 755RFB2 wireless bases over 30m)
Operating Temperature:	0 °C to 45 °C	0 °C to 45 °C	5°C to 45°C	0°C to 45°C
Ambient Humidity:	5% to 95%	5% to 95%	5% to 95%	0% to 95%
Horn Level:	85 dB at three metres minimum	85 dB at three metres minimum	85dB at three metres minimum	85dB at three metres minimum
Visual Indicators:	Green LED for mains power ON. Red LED for warning and low battery indication	Green LED for mains power ON. Red LED for warning and low battery indication	Green LED for mains power ON. Red LED for warning and low battery indication	Front: Red (normal alarm mode, test, hush) Rear: Yellow/blue/green for wireless pairing modes
Approvals:	Activfire SAI Global RCM	Activfire SAI Global RCM	Activfire SAI Global RCM	Activfire SAI Global RCM
Complies with:	AS3786:2014, AS/ NZS60065:2012, AS/ NZS60950-1	AS3786:2014, AS/ NZS60065:2012, AS/ NZS60950-1	AS3786:2014, AS/ NZS60065:2012, AS/ NZS60950-1	AS3786:2014, AS/ NZS60065:2012, AS/ NZS60950-1, AS4268

Accessory Specifications

Model	755RB	755RFB2	756
			
Main Power Source:	220-240 V a.c., 50 Hz	220-240 V a.c., 50 Hz	6V to 10V d.c. Referenced to Neutral
Secondary Power Source:		Sealed rechargeable lithium battery	1mA min
Operating Current:		≤40 mA	
Battery Life:		Ten years	
Terminal Provisions:	Active, Neutral, Loop and Interconnect terminals, each accommodates 2×1.5 mm ²	Active, Neutral, Loop and Interconnect terminals, each accommodates 2×1.5 mm ²	Interconnect, Neutral and Loop terminals, each accommodate 2x 2.5mm ² .
Interconnecting:	Max. 40 alarms (wired over 150 metres maximum)	Max. 40 alarms (wireless) Max. 40 alarms (wired over 150 metres maximum) Max. 40 755LPSMA4 alarms	Max. 40 smoke alarms connected to a single 756 unit.
Operating Temperature:	0 °C to 45 °C	0 °C to 45 °C	0 °C to 45°C
Ambient Humidity:	5% to 95%	5% to 95%	5% to 95%
Relay Rating:	250 V a.c., 2 A		250V a.c. 10A Resistive and inductive.
Relay Contacts:	NO/COM/NC voltage free		NO/COM/NC voltage free
Remote Input:	Dry contact momentary switch (for Remote Test / Hush function)	Dry contact momentary switch (for Remote Test / Hush function)	
Approvals:	Activfire RCM	Activfire RCM	RCM
Complies with:	AS/NZS 3100	AS/NZS 3100 AS/NZS 4268	
Transmit Frequency:		433.92 MHz (coded)	
RF Range (line of sight):		100 m free air, 30 m indoors	

Ordering details

Catalogue No.	Description
755PSMA4	240 V a.c. Mains Power Surface Mount Photoelectric Smoke Alarm with 9 V d.c. Battery Backup, Gen 4
755RLPSMA4	240 V a.c. Mains Power Surface Mount Photoelectric Smoke Alarm with Rechargeable Lithium Battery Backup, Gen 4
755PFM4	240 V a.c. Mains Power Flush Mount Photoelectric Smoke Alarm with 9 V d.c. Battery Backup, Gen 4
755LPSMA4	Lithium Battery Powered Photoelectric Smoke Alarm with built-in wireless interconnection
Accessories	
755RB	Smoke Alarm Mounting Base with Integrated Relay
755RFB2	Smoke Alarm Mounting Base with Wireless Interconnect, Gen 2
756	Smoke Alarm Isolation relay unit



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For more information on Clipsal Fire Tek Smoke Alarms, contact your local Clipsal and Schneider Electric Partner Business Representative, electrical wholesaler or visit [clipsal.com](https://www.clipsal.com)

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