



Fire Tek[®] and Wiser[®] Smoke alarms

Photoelectric Smoke alarms



pdl.co.nz/smoke-alarms

Life Is 

Schneider
Electric





Your customers' investment for life

Fire Tek and Wiser 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 Fire Tek and Wiser 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 Building Code of New Zealand requires all new homes to have a Type 1 Smoke Alarm System in compliance with NZS 4514:2021, from November 1, 2024 onwards. This means all new homes must have interconnected 230 V or 10 year Lithium battery powered smoke alarms installed in bedrooms, living spaces, hallways and landings.

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 home

All Fire Tek and Wiser 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

Our 230 V surface mount models (755PSMA4 and 755RLPSMA4), incorporates a removable hinged cover makes accessing the terminals and backup battery 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.

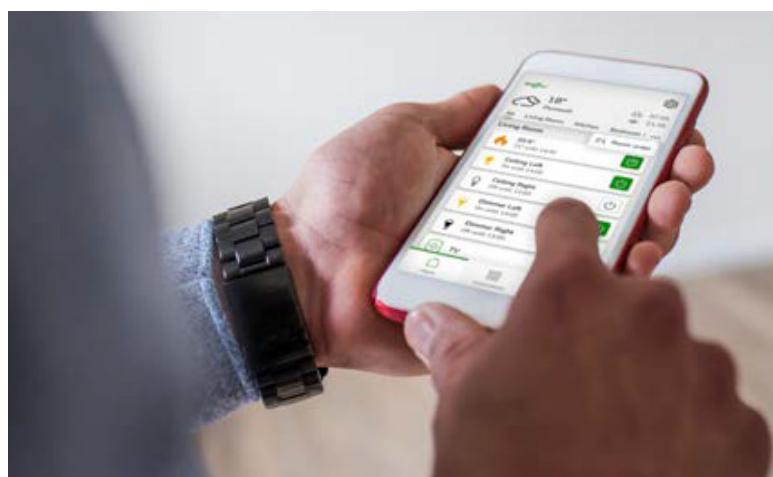
The wireless 755LPSMA4 Lithium battery powered smoke alarm is slim, stylish and simple to install. It incorporates a sealed-in 10 year lithium battery meaning there are no batteries to replace each year. It also has built-in wireless interconnection for full home protection.

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.

Wiser smart home integration

The Wiser smoke alarms (755WSA, CLP599WSA and PDL599WSAL) provide added peace of mind by connecting with Wiser Smart homes. Check the status through the Wiser app, flash lights and receive push notifications if smoke is detected. They also interconnect to the Clipsal Fire Tek Wired and Wireless smoke alarms for added protection.





Stylish design

In New Zealand homes today, the combination of technology and an aesthetically pleasing design is key. As a result, smoke alarms should not only offer exceptional quality but also should be able to seamlessly blend with the interior design of the homes they find themselves in. Clipsal Smoke Alarms perfectly strike this balance, allowing your customers to have a product that is both stylish and engineered for superior protection. With their modern design, they elevate the overall aesthetics of any home.

For customers who prefer a subtle look that doesn't overshadow their downlights, the flush-mount option (755PFM4) is the ideal choice. It boasts a compact size, effortlessly integrating among any downlights, enabling it to look right at home.

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 PDL 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 Fire Tek and Wiser 230 V 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 Fire Tek 230 V surface-mount models, the 755RFB2 Wireless Mounting Base allows up to 40 alarms to be wirelessly interconnected. The 755RFB2 also wirelessly interconnects with the 755LPSMA4 Lithium battery smoke alarm and the Wiser smoke alarms 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.

The Wiser Smoke alarms, when used with a Wiser Hub, can also be programmed to trigger security systems by controlling a Wiser Micro Module Relay PDL5011WSZ wired to the security panel.





Features and benefits

- Flush-mount and surface-mount options available
- Stylish, modern robust designs
- Photoelectric technology provides maximum protection against smouldering fires
- Wisier smoke alarms offer dual spectrum technology to help mitigate false alarms
- Mains-powered, 220-230 V AC and 10 year lithium battery powered models
- Rechargeable lithium or 10 year lithium battery back up options with 230 V surface-mount alarms
- Wisier smoke alarms provide smart home connectivity for added functionality.
- Fire Tek smoke alarms clip into existing mounting bases (755PSMA/2 or 755SMA – Surface, and 755FM or 755PFM – Flush)
- 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 Wisier smoke alarms, lithium battery alarms and surface mount 230 V alarms using 755RFB2 wireless base
- Connect third-party devices, i.e. lighting, security alarms and home automation systems, using optional 755RB relay mounting base, 756 module or Wisier Relays with Wisier smoke alarms

Certified fire safety, guaranteed

All Fire Tek and Wisier smoke alarms are manufactured to the highest possible quality. They meet all relevant New Zealand Standards and are ActiveFire listed to comply with the Building Code of New Zealand. 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 New Zealand. 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.

The Wisier smoke alarms also use the latest dual spectrum photoelectric technology for optimum performance and to help mitigate against false alarms.

Photoelectric smoke alarms are also recommended by New Zealand 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 230 V surface mounting bases).

The Wiser smoke alarms can also provide a monthly test reminder notification on your customers phone.

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.

The battery level of the Wiser Smoke alarms can also be checked in the Wiser app.

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 mains powered, 230 V 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 New Zealand mandates the installation of multiple, interconnected smoke alarms throughout every area in a new homes. This will be mandatory for new build homes as of November 2023 with a 12 month transition period.

In New Zealand, every new home with building approval granted from November 1st, 2024 onwards must have Type 1 smoke alarms powered installed according to NZS 4514:2021. The smoke alarms must be powered either by 230 V mains or a long-life 10 year sealed-in lithium battery. In order to comply with the New Zealand building code, these smoke alarms must be installed in every bedroom, and living space, and on every level of a new build house, whilst also being interconnected with one another through a wired or wireless connection.

When determining the placement of smoke alarms, it is important to consider certain factors to prevent false alarms or nuisance tripping. It is advisable to install smoke alarms in all rooms, except for the kitchen, laundry, and bathrooms. For enhanced protection, all smoke alarms should be interconnected.





BATTERY

ALARM





CLIPSAL

PUSH TO TEST




AC

POWER

Fire Tek 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:	755PSMA4, 755RLPSMA4 & 755PFM4 confirmed to comply with: AS 3786: 2014, AS/NZS 60065 and AS/NZS 60950.1 as per our instruction documents.	755PSMA4, 755RLPSMA4 & 755PFM4 confirmed to comply with: AS 3786: 2014, AS/NZS 60065 and AS/NZS 60950.1 as per our instruction documents.	755PSMA4, 755RLPSMA4 & 755PFM4 confirmed to comply with: AS 3786: 2014, AS/NZS 60065 and AS/NZS 60950.1 as per our instruction documents.	755LPSMA4 only complies with: AS 3786 & AS/NZS 60065 as per our instruction document dated 19/12/2019

Wiser Smoke Alarm specifications

Model	755WSA	CLP599WSA	PDL599WSAL
			
Main Power Source:	220-240 V AC, 50 / 60 Hz	220-240 V AC, 50 / 60 Hz	Sealed-in 3V Lithium battery
Secondary Power Source:	Sealed-in lithium battery	Sealed-in lithium battery	N/A
Operating Current:	≤ 40mA	≤ 40mA	≤ 40mA
Standby Power:	N/A	N/A	N/A
Battery Life:	10 years	10 years	10 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	
Sensing Type:	Dual Spectrum Photoelectric. This alarm contains NO radioactive material	Dual Spectrum Photoelectric. This alarm contains NO radioactive material	Dual Spectrum Photoelectric. This alarm contains NO radioactive material
Sensing Chamber:	N/A	N/A	N/A
Interconnecting:	Wireless and wired, max. 40 devices in one network Compatible devices for wired connection: CLP599WSA, 755PSMA4, 755RLPSMA4, 755PFM4 Compatible devices for wireless connection: 755LPSMA4, 755RFB2, CLP599WSAL and CLP599WSA	Wireless and wired, max. 40 devices in one network Compatible devices for wired connection: 755WSA, 755PSMA4, 755RLPSMA4, 755PFM4 Compatible devices for wireless connection: CLP599WSAL, 755WSA, 755LPSMA4, 755RFB2	Wireless, max. 40 devices in one network Wireless interconnection Compatible with the Fire Tek (R) 755LPSMA4 and 755RFB2 RF base, and Wiser CLP599WSAL and CLP599WSA
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 %
Horn Level:	85dB at three metres minimum	85dB at three metres minimum	85dB at three metres minimum
Visual Indicators:	Status LED (Amber, Green and Red) Standby LED (Red LED)	Status LED (Amber, Green and Red) Standby LED (Red LED)	Status LED (Amber, Green and Red) Standby LED (Red LED)
Approvals:	Zigbee 3.0 RCM Activfire SAI Global	Zigbee 3.0 RCM Activfire SAI Global	Zigbee 3.0 RCM Activfire SAI Global
Complies with:	AS 3786: 2014 + A1: 2015 + A2: 2018, NZS 4514:2021	AS 3786: 2014+A1: 2015+A2: 2018, NZS 4514:2021	AS 3786: 2014 + A2: 2018, NZS 4514:2021

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	230 V a.c. Mains Power Surface Mount Photoelectric Smoke Alarm with 9 V d.c. Battery Backup, Gen 4
755WSA	230 V Smoke Alarm, Round, Works with Wiser
CLP599WSA	Wiser 230 V smoke alarm, square
PDL599WSAL	Wiser Lithium battery smoke alarm, square
755RLPSMA4	230 V a.c. Mains Power Surface Mount Photoelectric Smoke Alarm with Rechargeable Lithium Battery Backup, Gen 4
755PFM4	230 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



For more information on Fire Tek and Wiser Smoke Alarms, contact your local PDL and Schneider Electric Partner Business Representative, electrical wholesaler or visit pdl.co.nz

PDL by Schneider Electric

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