

Photoelectric smoke alarm with 9V backup battery Cat SD200



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PDL is a brand of Schneider Electric

Photoelectric smoke alarm with 9V battery backup

Cat No. SD200

Introduction The SD200 is a 240V mains powered smoke alarm that uses photoelectric smoke sensing technology. The alarm has a 9V battery backup system and offers the same installation and user benefits that the SD100 already provides.

Features and benefits

Feature	Application	Benefit
Removable mounting plate	Termination and plate mounting can be undertaken while the alarm itself is out of the way. The alarm can be stored securely away from building work prior to commissioning.	Faster and easier installation. Secure protection of alarms prior to commissioning.
Multiple base mounting options	The SD200 smoke alarm has standard 84mm mounting centres, conduit box centres and numerous other mounting holes as standard	Faster and easier installation in any scenario.
Surface mount design	No part of the SD200 smoke alarm protrudes into the ceiling, requiring only a small hole for cables to be drawn through.	Faster and easier installation. Fewer mistakes in sizing and positioning of cable hole.
Tunnel terminals, including a loop	Direct cable termination into the alarm with no need for terminal blocks, junction boxes, flying leads or additional cable protection in the ceiling space.	Faster and easier termination. Less scope for termination errors.
Surface wiring option	Meets surface wiring applications without the need for additional mounting plates.	A simpler and more cost effective surface mount option.
Aesthetic good looks	Minimises the impact of the product when mounted on the ceiling by offering clean, stylish design.	Minimises visual impact and enhance householder satisfaction.
Interconnection of up to 20 SD Series smoke alarms	Effective alarm warning of an entire area covered by all alarms if one unit detects smoke. Different types of SD Series alarm can be used to match particular requirements of certain areas in an installation.	Early warning can save lives. Maximises protection through matching alarm types with the environment.
Visual function LED light indicators	Green LED glows - main power (230-240V) on. Red LED flashes one every 40-60 sec - smoke alarm & battery are functioning correctly. Red LED flashes rapidly - smoke is detected.	Easy diagnosis of alarm status.
Large test button	Regular tests ensure the alarm is functioning correctly. The large concave test button makes testing easy – tests can be simply & safely activated with a broom, without having to climb onto something in order to get within reach.	Maximises safety by encouraging householders to test regularly (and safely).
Dust cover included	Dust protection during construction or redecoration.	Prevent dust contamination.
Hush or silence feature incorporated into the test button	Simply press the button for 3 sec when non-hazardous sources (like cooking) cause the alarm to sound.	Convenience during nuisance alarming.
Easy 9V battery access via hinged lid and finger slot	9V batteries need replacing occasionally, so the SD100 and SD200 make this easy, including a finger slot next to the battery. Mains 240V power is automatically isolated when the battery compartment is accessed.	Encourages replacement and therefore safety.
5 year warranty	The long warranty period provided by Schneider Electric endorses our faith in the range.	Peace of mind for installers and householders.

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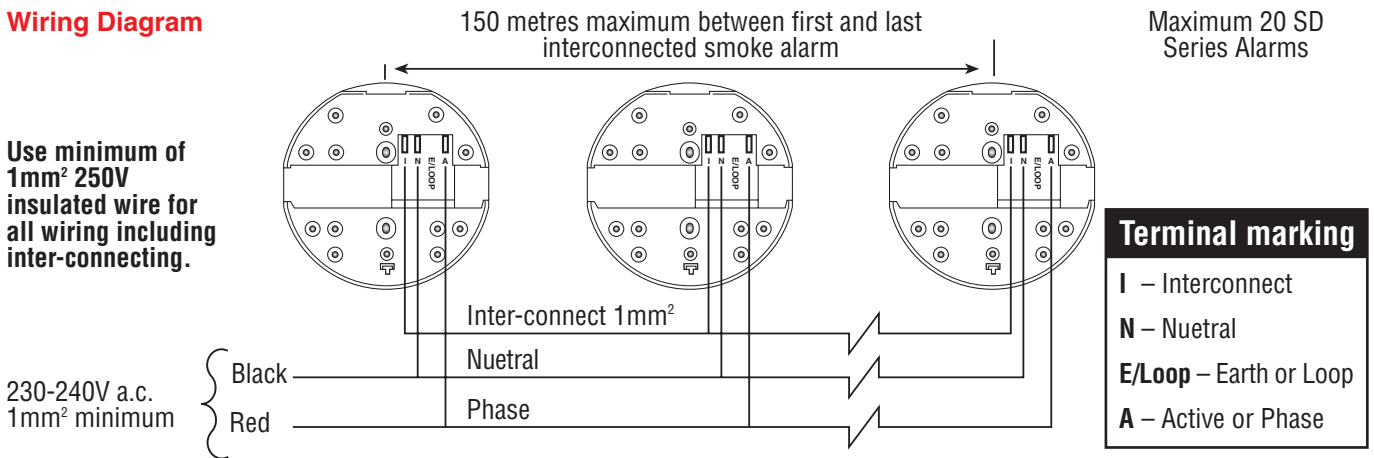
FAQs

- *Interconnecting SD Series smoke alarms.*

Interconnecting alarms increases householder safety. There are a number of important issues regarding interconnection to note:

1. Only use PDL SD Series alarms together. Other brands may operate on a different interconnect voltage and not interact properly.
2. The PDL SD Series of smoke alarms put a 8V DC alarm interconnect signal over the I and N wires. All interconnected alarms need to be on a single circuit and must share a common neutral.
3. Up to 20 alarms over 150 metres may be interconnected.
4. Read all instructions supplied with every SD Series smoke alarm, before installation.

Wiring Diagram



SD200 applications and usages

Technology	The SD200 uses no radioactive material. Instead, uses a light emitter and receiver to detect smoke. If no smoke particles are present, no light reaches the receiver. When smoke particles are present some light is reflected or refracted onto the receiver, triggering the alarm.
Advantages	Are sensitive to large smoke particles associated with smouldering fires. Will provide earlier warning than an ionisation alarm in these conditions.
Disadvantages	Slower to respond to fast flaming fires. More prone to dust or insect contamination than ionisation alarms.
Where to use	Smokers' bedrooms Small confined apartments Near kitchens Family rooms
Where not to use	Bathrooms Dust or insect prone areas

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Specifications

Main Power Source:	230-240V a.c. 50Hz	Inter-connecting:	20 PDL SD series alarms over 150 metres maximum
Secondary Power Source:	9V d.c. Carbon Zinc or Alkaline battery	Horn Level:	85dB at 3 metres minimum
Operating Current:	35mA	Visual Indicators:	Green LED for Mains Power ON Red LED for Warning and Low Battery indication
Battery Life:	1 year approximately	Approvals:	Listed by Scientific Services Laboratory
Sensing Type:	Photoelectric. This alarm contains NO radioactive material	Complies with:	AS3786:1993 AS/NZS3100:1997
Operating Temperature:	5°C to 45°C	Certificate of Suitability:	CS02038V
Ambient Humidity:	10% to 90%		

Approvals

The PDL SD200 smoke alarm has been tested to AS3786:1993 and AS/NZS3100:1997 by Scientific Services Laboratory and holds Australian Electrical Authority Certificate of Suitability CS02038V. Additionally, the SD200 has been third party accredited by both SSL and Quality Assurance Services (QAS). The SD200 is approved to carry the following marks:



Ordering Information

Catalogue Number	SD200
Description	Photoelectric smoke alarm with 9V battery backup
Trade Price* (each)	\$92.78 (ex. GST)
Product availability	In stock
Carton Quantities	Inner carton 1 Outer carton 6

* Pricing is current as of 1 November 2002, but is subject to change without notice.



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