





Preaction Sprinklers

Safe for certain.

MINIMAX

Product

Our patented preaction sprinklers minimise the risk of false triggering, thus providing double protection.

- In a conventional sprinkler system each individual sprinkler head is sealed with a glass bulb.
- ► If this bulb is damaged by accident, e.g. during construction work, water is sprayed over the area, so damaging the building, fixtures and furniture.
- The Minimax preaction sprinklers has been specifically developed to prevent such damage.
- Each preaction sprinkler unit consists of two separate sprinkler heads. Before extinguishing water is released, both sprinkler heads of the unit must be triggered.
- The Minimax preaction sprinkler is thus a cost-effective alternative to dry pipe sprinkler systems using an additional electronic fire detection system to give the preaction functionality. Therefore the Minimax preaction sprinkler is particularly recommended for small areas.

Application

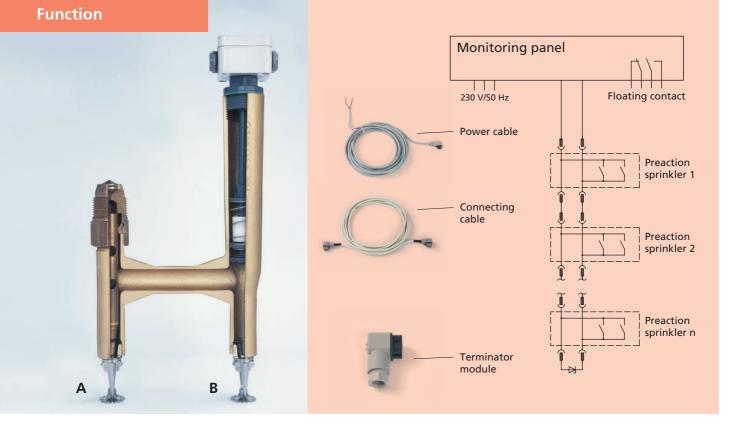
- Preaction sprinklers are particularly suitable for the protection of areas where extinguishing water is likely to cause considerable damage. Both wet and dry sprinkler systems can be upgraded to preaction systems.
- The Minimax preaction sprinkler system is particularly suitable for:
 - IT rooms
 - PC workstations
 - Test benches
 - IT and telecommunications equipment
 - switch gears
 - Archives
 - Galleries
 - Libraries
 - Production equipment
 - Pharmaceutical production facilities
- We also offer a special model for saunas with sprinkler heads that are set to respond at a higher temperature.

Advantages

- Protects valuable and sensible objects and rooms against water damage
- No need for additional sprinkler groups with separate alarm valves and pipework
- Existing sprinkler systems can be easily upgraded
- Low minimum operating pressure of 3 bar
- Coded connector plugs allow for fast and simple cabling between the individual preaction sprinklers
- Automatic alarm upon damage of one of the sprinkler heads and in the event of a cable rupture or short-circuit
- Low-cost panel for the remote monitoring of the system available

Approval:





The Minimax preaction sprinkler unit consists of a housing with two separate sprinkler heads. Before water is released, both sprinkler heads in the unit must be triggered.

If only one sprinkler head is triggered, an acoustic or visual alarm signal is generated at the monitoring panel. The operator can thus respond quickly and repair the damaged sprinkler head, avoiding the risk of water damage.

► How does the Minimax preaction sprinkler work?

When only the sprinkler head to the left (A) has been triggered, the inner tube drops down, allowing the water to flow into the cast metal housing. The lower end of the tube is closed, thus is seals the sprinkler orifice and prevents water from escaping from the sprinkler head. The water flowing into the housing lifts the float, which triggers a visual and audible alarm signal at the monitoring panel.

When only the sprinkler head to the right (B) is triggered, the float drops down, thereby activating a switch. Again, an alarm signal is generated at the monitoring panel.

When both sprinkler heads are triggered, extinguishing water is sprayed from the right sprinkler head (B). The alarm valve activates the alarm pressure switch so that an alarm signal is sent to a continuously manned control desk.

➤ The Minimax preaction sprinkler for dry systems is equipped with an additional pressure switch. When the left sprinkler head is triggered, compressed air flows into the preaction sprinkler housing and activates the pressure switch generating an alarm signal at the monitoring panel.

Technical data

Туре	Protected area per preaction sprinkler unit	K value of preaction sprinkler	Operating pressure	Nominal release temperature	Orientation	Sensitivity	Sprinkler body	Power supply of control desk	Space required for installation above suspended ceiling
DS1 Preaction sprinkler for wet systems and DS1 TR for dry pipe systems	max. 9 m ²	wet system 57 dry system 64	min. 3 bar	68 °C	suspended	special-response RTI 50 - 80	brass, chrome plated	230 V AC	min. 320 mm
Preaction Sprinkler DS1-Sauna	max. 9 m ²	57	min. 3 bar	141 °C or 182 °C	suspended	standard-response RTI > 80	brass, chrome plated	230 V AC	min. 320 mm

The right is reserved to modify any specification without prior notice.

VdS

* Certified acc. to

PB55We_01/12.03/3/01.04/HMB Printed in Germany

Minimax GmbH & Co. KG Industriestrasse 10/12 D-23840 Bad Oldesloe Phone: +49 (0) 45 31 8 03-

Phone: +49 (0) 45 31 8 03-0 Fax: +49 (0) 45 31 8 03-2 48 E-mail: info@minimax.de www.minimax.de