

GE-FAQ-06/16-01

FAQ Gemini Pre-action Sprinkler Head

Where can I install Gemini?
Gemini is typically installed where water damage will be costly but active fire protection is required. Its double-knock design means that the chance of accidental discharge is effectively eliminated.

How do I install Gemini?
Gemini connects to a wet sprinkler system in the same manner that a 'second-fit ' sprinkler drop pipe is installed into a false ceiling. The Gemini heads are then simply interconnected using factory supplied leads and plugs to form an electronic loop between the heads and routed to a wall mounted monitoring box (the monitoring box should be wired by a suitably qualified electrician).

Can the Gemini unit be installed in a false ceiling?
Yes. It can be supplied with a purpose designed, two piece rosettes. It can also be installed underneath a slab with no false ceiling.

How is the alarm received?
Gemini has a factory supplied monitoring panel which can be located locally to the protected area to provide an audible and visible alarm.

Can I connect Gemini into my fire alarm panel or BMS system?
Yes, the Gemini monitoring panel has two volt-free contacts that can transmit a fault signal.

Where should I put the Gemini monitoring panel?
The Gemini monitoring panel would typically be located outside the area it was protecting. We would typically suggest it was placed adjacent to the main access door to the protected area.

What is the distance between the two sprinkler heads on each Gemini unit?
130mm (water discharges from one head only).

What is the RTI of the Gemini sprinkler head?
The Gemini is fitted with fast response, LPCB & VdS approved, sprinkler heads with 3 mm bulbs and an RTI of less than 50.

What is the approved spacing for the Gemini sprinklers?
9m^2 spacing max.

What operating pressure do I need at each head?
3 bar.

Should I fully hydraulically calculate systems that incorporate Gemini heads?
Yes, you must have a minimum of 3.0 bar at each Gemini unit. Practically, this usually dictates the system should be fully hydraulically calculated.

How many Gemini sprinkler heads can be installed in one area as a maximum number?
There is no specified maximum number.

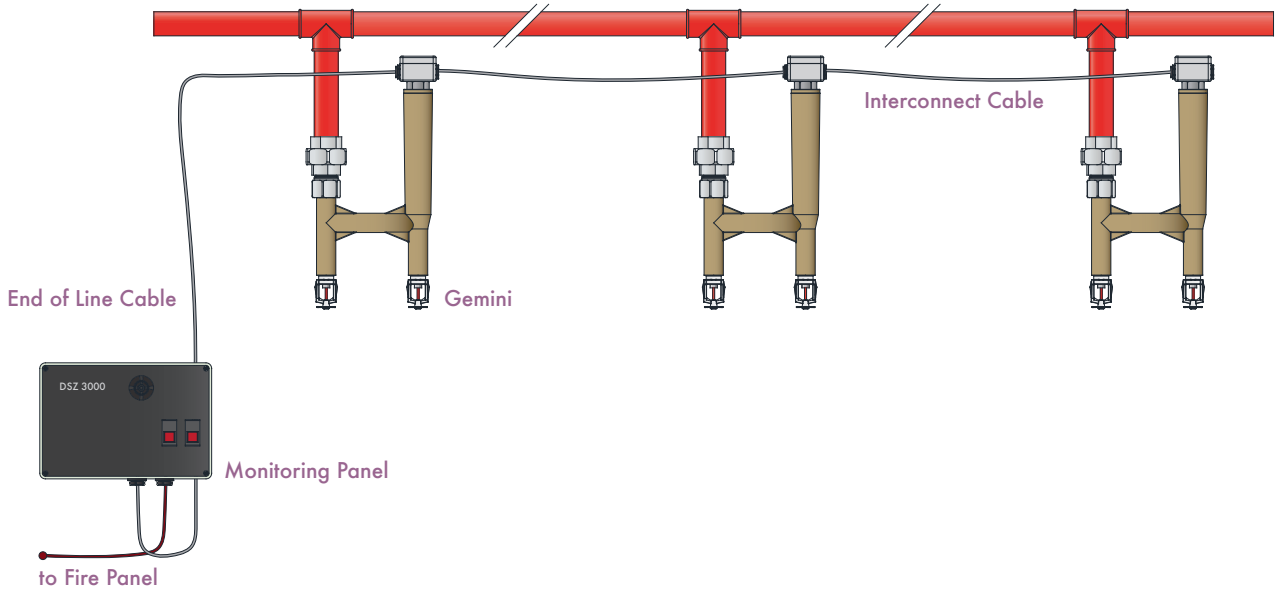
How is the alarm wiring installed?
Each Gemini unit has its own fitted plug which allows factory supplied leads to simply plug in and inter-connect all sprinklers in a protected area.

In the event of accidental operation, can a replacement head be installed on site?
No. On activation the whole Gemini unit must be replaced. Gemini is only approved when the sprinkler head is fitted at the factory.

What is the recommended procedure for replacing the Gemini sprinkler?
It is recommended to have one additional Gemini on site in the normal sprinkler spare box.

Can I insert different sprinkler heads into the Gemini unit?
No. Gemini is only approved with the supplied sprinkler head that is fitted at the factory.

How can I test the electronic fault signal?
The electrical alarm signal can be tested by breaking the circuit i.e. unplugging one of the monitoring connections, however the approval does not stipulate such routine testing.



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