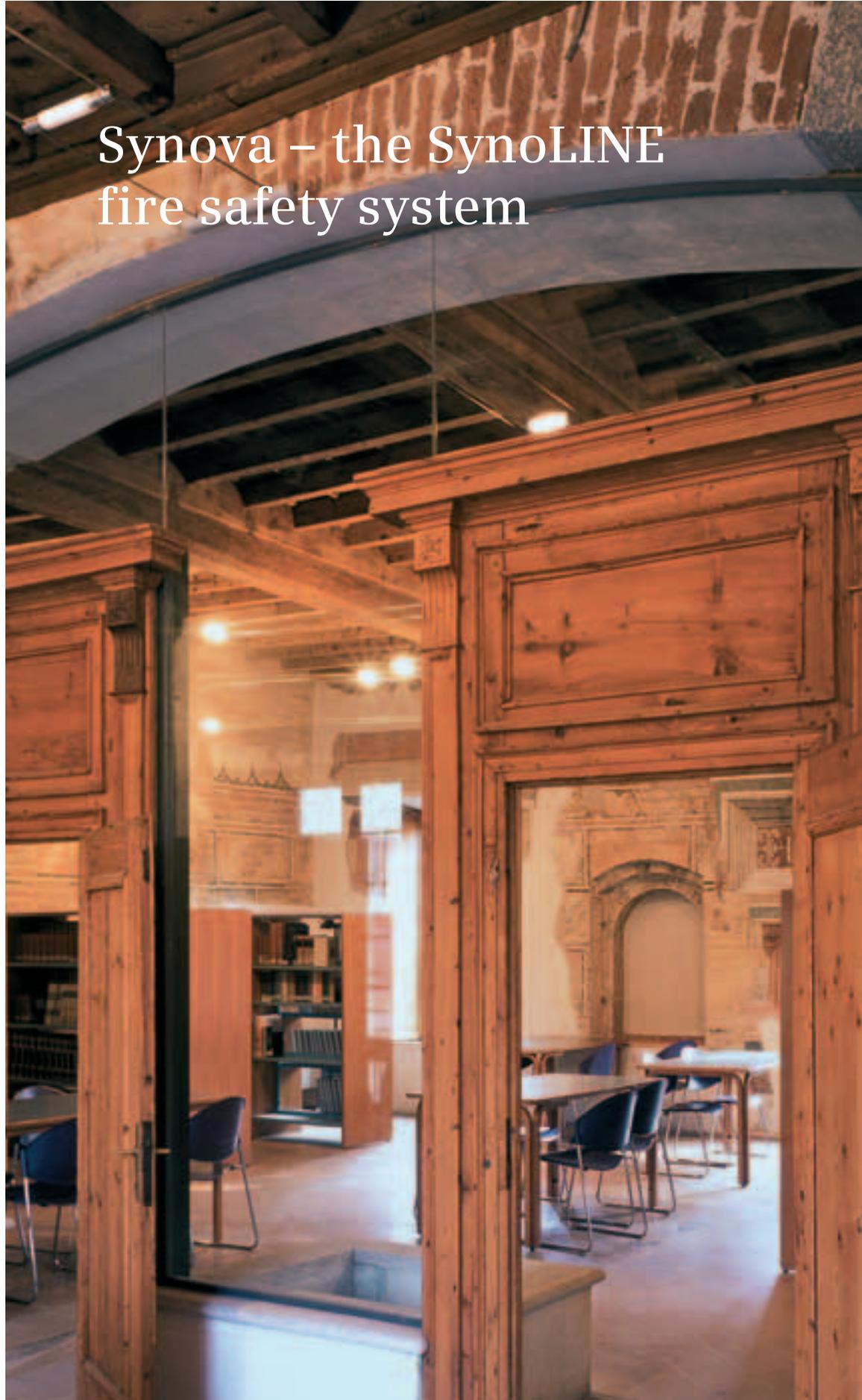


Synova – the SynoLINE fire safety system



Answers for infrastructure.

SIEMENS





The conventional system

SynoLINE has been designed from scratch to combine excellent performance with the simplest possible: installation, start-up, maintenance, and daily use. As a result the installer can work more efficiently. And the user can start managing his affairs after a shorter period.

Firework is teamwork. And that is why Synova™ components work perfectly together. As a result, false alarms belong to the past, thanks to the newly developed optical measurement chambers of the Synova detectors and the comprehensive features of the FC10.

Brigade connection with separate functionality for manned/unmanned operation, high-risk areas and faults.



Synova MT320C manual call point for the immediate triggering of a fire alarm.



SynoLINE300

SynoLINE600

■ **SynoLINE transmission protocol**

- Simple conventional detector line
- Compatible with and matched to the Synova detector series

OP320C optical smoke detector. For the early warning of smoke-forming flames and smouldering fires.



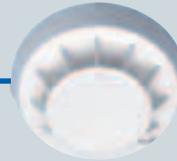
OH320C multi-sensor smoke detector. Its wide detection band protects valuable and sensitive objects such as paintings and timber from fire. For example: half-timbered houses, painting or cosmetic stores.



HI320C rate of rise heat detector. For situations where a rapid rise in temperature is anticipated. Provides excellent performance even in dusty or damp rooms.



The HI322C heat detector continually measures the ambient temperature and sounds an alarm if the defined maximum value is continually exceeded. Excellent for kitchens, boiler rooms etc.



AI320/322 response indicators

AI300/AI340 response indicators for parallel optical display of automatic fire detectors.



Synova DM1103 manual call point for the immediate triggering of a fire alarm.



■ **Also compatible**

- Linear smoke detector
- Flame detector
- EX-protected detector
- ASD duct for monitoring, air conditioning and ventilation systems



The Synova detectors simply click by hand into place in the pre-mounted base.



No problems before switching on

■ Flexible features

The SynoLINE system provides huge flexibility in the simplest of packages.

The wealth of programmable options allows system designers to specify SynoLINE for applications that would normally be far beyond the capabilities of conventional systems. The wide range of

compatible detection devices allows designers to provide the optimum detection for any area in the comfortable knowledge that one supplier is responsible for all the system devices.

The ability of the detection zones to be individually programmed for 4 different connection protocols enables the Synova FC10 to replace existing control panels with confidence allowing older systems to be gradually upgraded to benefit from the comprehensive features of SynoLINE.

The control panel has been designed with plentiful cable entries and a roomy termination area. Default operation has been carefully selected to minimize programming but should the need arise a simple menu structure means changes can be initiated simply and effectively. Our unique test units that check the installation at every point can provide additional security and the guarantee of Siemens quality in everything we do gives ultimate confidence.

Highlights – Synova detectors

- Attractive, environmentally aware design
- Blend unobtrusively into any room
- Superior resistance to contamination and electromagnetic interference
- Screwless connection technology
- Uniform electronics-free base with matching accessories
- High stability against lightning
- Short-circuit proof output for the connection of external alarm indicators
- Can be easily colored and blend comfortably into surrounding decor

■ Speedy installations

A guiding principal of Synova detectors is that everything should be quick and easy to install. Mount the uniform base and plug the unshielded cable into the screwless terminals. The detector is then simply clicked into place.

■ Any color you wish

Just because it's the best, it doesn't have to be ugly. We have coated every Synova 300 detector in such a way that it can be painted in your desired color without any problem.



No worries afterwards

■ Secure overall system

With all system devices coming from one supplier you can be sure that everything has been designed to work perfectly together and when that supplier is Siemens you can feel confident that it will stay that way.

The flexibility of the panels allows the system operation to be optimized for each application, the vast range of detection devices means that fast reliable detection can be provided in every area and the years of experience in fire alarm systems mean that speedy detection comes with no cost in false alarms.

■ Easy control

The FC10 fire control panel lies at the heart of the SynoLINE system and has been designed to ensure the simplest operation, possible. System testing and isolation can be performed with confidence using the comprehensive array of clear, concise controls and indicators. Confusing multi-function buttons have been replaced by independent controls and the option of code or key switch access allows the user to decide which is best for them.

The ability of the system to work in two distinct modes further reduces false alarms and the simple method of selection allows this feature to be used without complication.

Highlights – FC10

- 2–24 zones for the connection of Synova 300 conventional devices
- Manned/unmanned operation
- Differentiation of manual and automatic alarm origin without separate wiring
- Code or key switch user access
- Clear, comprehensive indication and controls for easy customer operation
- Vast array of programmable functions
- Optional clock, alarm counter and 320 event memory



The innovative design of the labyrinth permits a previously unattainable level of light absorption. The result is the highest detection level with the minimum risk of false alarms.



■ Safe, sensitive detection

Over 50 years experience in fire detection has gone in to ensuring that all Synova detection devices are both extraordinarily sensitive and stable.

The thermo sensor used in the heat detectors reacts to slow and fast temperature changes in a way that is immune to deception. The optical smoke detector incorporates a patented chamber design for a wide response range and an exceptional immunity to dust and dirt. Triple channel flame detection removes false activation through deceptive phenomena. Whatever the application the reasons for using Synova are compelling.

■ Patented performance

Three patented Synova innovations guarantee optimal performance. An asymmetrical labyrinth reduces background light to previously unattainable levels. Dust and dirt in the highly polished optics area receive virtually no illumination and a futuristic chamber cover is so inge-

niously designed that virtually no dirt reaches the chamber in the first place. The detector base incorporates screwless terminals that are immune to vibration thus guaranteeing a high-connection quality.

Finally Synova detectors are not affected at all by mobile phones, fluorescent lighting or other sources of interference because their EMC values already exceed required standards.

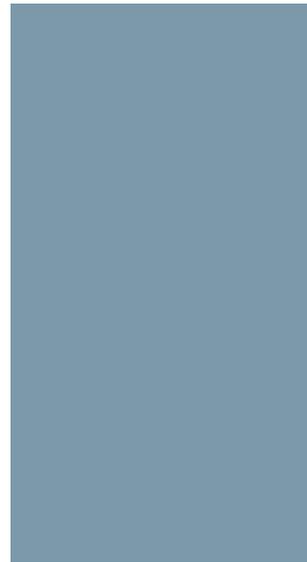
■ SynoLINE

Highly developed detectors, simple signal transmission and high reliability. SynoLINE is a proven alarm system based on conventional line technology at an excellent price. This is the reason it is ideal for the design of smaller fire detection systems.

SynoLINE can be adapted using the comprehensive functionality of the FC10 to integrate easily with changing demands.

In some rooms, alarm systems literally go together like night and day. For this reason, Synova 300 detectors can be painted in any color you desire without any problem.

Complicated operating instructions. Instead, you receive clear LED displays, a key switch and an ergonomically designed keyboard. All very easy to operate. So that it will be easier for you to keep a cool head if a fire occurs.



Welcome to the world of innovative thinking

■ Innovation

Siemens invests a great deal in both in manpower and research and development. This results in a steady stream of new insights, technologies and inventions that enable us to improve the reliability of our products, systems and solutions for the protection of people and assets.

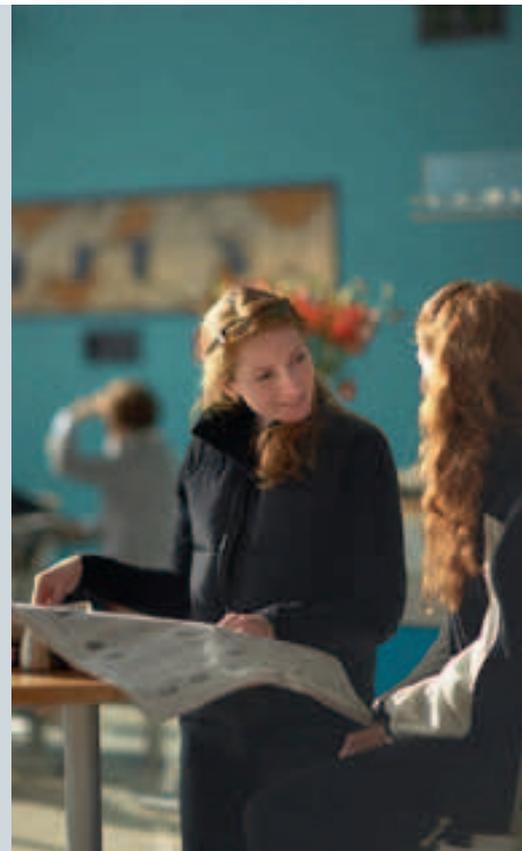
Relying on the highest standard of automatic production processes contributes a great deal to the environment protection. Siemens is at the leading edge of progress in this field and continues to redefine both current and future technologies.

■ Reliability

With a history of over a hundred years, if you need an established, reliable partner you are in the very best of hands with Siemens. System expansions, migrations and upgrades can be continuously made over a period of years, which ensures your investment for the future.

■ Safety

Innovative products, systems, intelligent solutions and value-added services from Siemens offer you complete fire protection – for everything that is valuable to you, no matter which type of building or how high the risks. Today, tomorrow and for decades to come. That's why countless customers around the world place their trust in Siemens.



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The information in this document contains general descriptions of technical options available, which do not always have to be present in individual cases. The required features should therefore be specified in each individual case at the time of closing the contract.

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