

Invented for life



Quick Selection Guide

Your overview to our high-performance fire portfolio

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AVENAR panel 8000 and AVENAR panel 2000

Wall and Frame Mount



AVENAR panel 8000 and AVENAR panel 2000



LSNi Local SecurityNetwork

| LSNi Local SecurityNetwork | | | |
|---|--|--|--|
| Features | Benefits | | |
| Auto configuration capability (self-learning mode) Flexible network structure (loop, stub, T-tap and mixed structure) All cable types usable (shielded and unshielded cables) | Reduced programming and installation cost and time No special cable types needed, existing cables can be used | | |
| Up to 3000 m line length Up to 1.5 A current per loop (LSN1500A) Up to 254 elements per loop/line Up to 127 elements per loop/line in LSN classic version | Less installation time and cost through reduced number of loops Increased number of loop powered devices | | |
| Built-in diagnostics functions Remote support is possible | Easy and cost efficient maintenance and support | | |
| Short circuit isolators in each device increase system integrity and cost savings | One cable connects multiple areas Can withstand a short or open circuit at any point in the loop and all devices still function | | |
| Digital communication in every detector | High security against tamper | | |
| Addressable detectors Automatic or manual address setting possible | Easy operation Way of address setting can be chosen depending on the requirement on the site | | |
| One bus for intrusion and fire | Cost efficient installation, additional security | | |
| Remote programming and maintenance | Cost efficient and time saving | | |









AVENAR All-in-One 4000

Sounder and Voice Alarm Device



Benefit 1. Reduced cost by optimized installation + maintenance time

- ▶ Patent-registered power concept allows up to 125 products per loop
- ► One combined device instead of three single ones optimizes installation time and saves space
- Easy and cost-efficient installation + extension due to high UX focus
- Decreased installation cost thanks to easy pre-mounting of the base (plug terminals, one-hand assembly, identification feature for screwing in)
- 2. Smart energy concept 100% effective alarming in case of complete power cut (uninterruptible)
 - Acoustical and optical warning also during complete power cut
 - Eliminates E-30 wiring requirement
 - ► Battery life-time up to 10 years
- 3. High degree of flexibility for different use cases
 - Mountable on ceiling or wall
 - ► IP 41 class
 - Maximum flexibility for different application areas due to three intensity levels (certified according to EN54-3 and EN54-23)
 - Replacement of detector head alone is possible

Compatible with all fire detectors of the AVENAR 40000 series



LSNi Peripherals Manual Call Points



LSNi Peripherals Signaling Devices

| | Base Sounder FNM-420-A-BS-WH/ FNM-420-A-BS-RD FNM-420U-A-BSWH*/ FNM-420U-A-BSRD* | Stand-alone Sounder Indoor FNM-420-A-WH/ FNM-420U-A-RD* FNM-420U-A-WH*/ FNM-420U-A-RD* | Stand-alone Sounder Outdoor FNM-420-B-RD FNM-420U-B-RD* | Stand-alone Voice Sounder Indoor FNM-420V-A-WH/ FNM-420V-A-RD | Strobe FNS-420-R |
|---------|--|---|---|--|--|
| Feature | 2 types: red and white 90 dB with current < 5 mA Constant sound pressure level in case of voltage drop Immediate and instant synchronization 32 tones 5 sound pressure levels Combination with detector/Beacon Integrated short-circuit isolators * Inbuilt high-output power sources | 2 types: red and white 100 dB with current < 5 mA Constant sound pressure level in case of voltage drop Immediate and instant synchronization 32 tones 5 sound pressure levels Integrated short-circuit isolators * Inbuilt high-output power sources | Red colour only Outdoor type with IP66 100 dB with current < 5mA Constant sound pressure level in case of voltage drop Immediate and instant synchronization 32 tones 5 sound pressure levels Integrated short-circuit isolators * Inbuilt high-output power sources | 2 types: red and white Constant sound pressure level in case of voltage drop Synchronization of sounders 32 tones, 7 languages 5 sound pressure levels Integrated short-circuit isolators Can be operated with an industrial, high performance power source Individually programmable with configuration software | Addressable strobe Freely configurable Combination with detector base or with LSN base sounder Low current consumption of 6 mA Maximum light at 1 Hz frequency for high level of visibility 2-wire device Alarm LED visible from any direction Integrated short-circuit isolators |
| Benefit | Simplified planning of fire alarm systems > 50 sounders per loop Constant sound pressure level ensures reliable notifcation European tones covered Easy fitting with pre-installed mounting plate, available also for surface mounted cabling Low current consumption for cost-effective solutions Reduced costs by mounting detector or beacon into base sounder Combination with detector saves extra cabeling Immediate synchronization Functional even during power cuts Easy installation | Simplified planning of fire alarm systems > 50 sounders per loop Very high, consistent sound pressure level at low power Constant sound pressure level ensures reliable notifcation European tones covered Easy installation (comfortable back box with knock-outs and space for cabling) Functional even during power cuts Very robust design | Simplified planning of fire alarm systems > 50 sounders per loop Very high, consistent sound pressure level at low power Constant sound pressure level ensures reliable notifcation European tones covered Easy installation (comfortable back box with knock-outs and space for cabling) Functional even during power cuts Very robust (weather-proof) design | Very high, consistent sound pressure level at low power Constant sound pressure level ensures reliable notification European tones covered Easy installation (comfortable back box with knock-outs and space for cabling) Very robust design Functional even during power cuts Individual or additional languages can be added | Synchronized flash rate 1 Hz Low current consumption allows connection of a large number of peripheral elements Quick installation |

LSNi Peripherals Interface Modules



LSNi Peripherals Interface Modules

111110 • Octo-relav Octo-Output Short Circuit Octo-Input Interface Output-Input Interface Module Interface Module Interface Modules with 2 Inputs Module with Relay Isolator Low Voltage Interface Module **FLM-I 420 FLM-420-RLV8-S** FLM-420-0812-S FLM-420-18R1-S FLM-420-RLE-S FLM-420-0111 ► Isolation of short circuits on ► Eight change-over contact ► Eight individually switchable ► Individually selectable ▶ 1 low voltage relay ► Max. switchable current per Feature I SN-Line relays provide potential-free monitoring functions open collector outputs Am 007 Jugtuo (30 V. 1 A) ► 2-wire device contact outputs ► Max. switchable current per (EOL or contact) for each ► Individually selectable input ► 2 supervised input lines ► Maximum switching output 700 mA of the 8 inputs monitoring functions ▶ 1 input line programmable capacity of the relays 2 A / ► Outputs electrically isolated ► Maximum switching (EOL, contact or voltage) as relay feedback 30 V DC from LSN loop and short capacity 2A/30VDC ► 2-wire device ► Conformity to VdS 2496: ► 2-wire device circuit proof ► 2-wire device 2005 ► Individually selectable monitoring functions (EOL or contact) for the two inputs each ► 2-wire device Benefit ► Isolator for T-tap-systems ► Easy wiring by pluggable ► Easy wiring by pluggable ► Easy wiring by pluggable ► Supervision and control of ► Available as in-built and ► Functionality of the terminal block terminal block terminal blocks DIN-rail version external applications, e.g. ► Control of technical LED-Control of technical LED-► Integration of technical remaining network is extinguishing systems Control of external devices tableaus alarms tableaus ► Delivered with housing for preserved surface mounting ► DIN-rail mountable

LSNi Peripherals

Radio Detectors and Remote Indicators



Fire Detectors

| | Optical Smoke Detector FCP-0320 | Multisensor Detector FCP-OT320 | Thermal Detector FCH-T320 | Multisensor Detector FCP-OC320 |
|---------|---|---|--|--|
| Feature | Light scattering principle Drift compensation Automatic pollution detection System-independent device (8.5V - 30V DC) 2-wire device Self-monitoring sensor | Combination of light scattering principle, rate of rise and fixed temperature measurement Drift compensation Automatic pollution detection System-independent device (8.5V 30V DC) 2-wire device Self-monitoring sensor | Combination of rate of rise and fixed temperature measurement System-independent device (8.5V - 30V DC) 2-wire device Self-monitoring sensor | Combination of light scattering principle as well as combustion gas detection Drift compensation Automatic pollution detection System-independent device (8.5V - 30V DC) 2-wire device Self-monitoring sensor |
| Benefit | Cost optimized Low false alarm rate Drift compensation for long term stability Cost effective solution for expansion of existing installations | Cost optimized Additional robustness against false alarm due to additional temperature sensor Drift compensation for long term stability Cost effective solution for expansion of existing installations Covers many detection applications | Cost optimized Suitable for smoking lounges and very dusty areas Combination of fixed temperature and rate-of- rise algorithm for low false alarm rates Cost effective solution for expansion of existing installations | Cost optimized Additional robustness against false alarm due to additional carbon monoxide sensor Drift compensation for long term stability Cost effective solution for expansion of existing installations |

Fire Detectors



Manual Call Points and Signaling Devices



Signaling Devices



Special Detectors

| | Flame Detector IR3 | IR3 Flame Detector Flameproof Exd | Linear Smoke Detector with self-alignment Fireray 5000-EN | Linear beam, standalone reflective FRAY-ONE-EN | Linear Smoke Detector Fireray 3000 |
|---------|--|---|---|---|--|
| Feature | Class 1 sensitivity according to EN 54-10 detects 0.1m² flames at 25m Low risk of false alarms due to different IR wavelengths and a combination of filters and signal processing techniques Reliable operation, even if the lens is contaminated by a layer of oil, dust, water-vapour, or ice Selectable response time 2-wire or 4-wire configuration via DIP switch settings CDP 016589 and VdS G 212189 approved and certified | Suitable for explosive areas of the zones 1, 21, 2 and 22 (ATEX and IECEx certified) Class 1 sensitivity acc. to EN 54-10 detects 0.1m² flames at 25m Low risk of false alarms due to different IR wavelengths and a combination of filters and signal processing techniques Reliable operation, even if the lens is contaminated by a layer of oil, dust, water-vapour, or ice Selectable response time CPD 016519 and VdS G 212189 approved and certified | Integral LASER alignment aid Automatic contamination compensation AutoOptimize beam alignment Building shift compensation Adjustable alarm threshold Minimum distance 5m, maximum distance 100m EN 54-12 approved UL approved Second beam path possible | Standalone product with integrated control unit Auto-Alignment with motorized detector head Light Cancellation Technology Building Movement Tracking Detection range up to 120m | Extended monitoring area Separate transmitter and receiver Evaluation unit integrated into a compact housing Integral LASER alignment aid 2nd beam path possible Adjustable alarm thresholds Minimum distance 2m Maximum distance 120m |
| Benefit | The response to 0.75 to 2.7 µm light emissions from fires allows the detection of almost all flickering flames False alarms due to factors such as flickering sunlight are avoided by a combination of filters and signal processing techniques Low-frequency detection enables the sensor to operate through a layer of oil, dust, water-vapour, or ice | The response to 0.75 to 2.7 µm light emissions from fires allows the detection of almost all flickering flames False alarms due to factors such as flickering sunlight are avoided by a combination of filters and signal processing techniques Low-frequency detection enables the sensor to operate through a layer of oil, dust, water-vapour, or ice | Cost effective Ground level system controller on eye level provides cost-savings through easy installation and maintenance Up to 2 detector heads connectable Drift compensation AutoOptimize beam alignment | Easy to mount and cost-effective Suitable for use in areas where point-type detectors are not effective | Good applicability for any kind of ceilings Accommodates high installation heights Can be used in applications with reflections (e.g. glass ceilings, pool areas) |

Special Detectors

