# KE-DP3121W-SNV

## Detetor inteligente endereçável dupla ótica/temperatura com isolador, sirene e DAV

### General

The innovative Excellence range of intelligent addressable devices offers advanced features for reliability and peace of mind. Coupled with features for ease of installation and maintenance on new fire detection systems, it's a perfect match for exceptional overall performance.

The DP3121W-SNV is a Kidde Excellence series, traffic white addressable dual optical and heat detector with integrated short circuit isolation, sounder and VAD (Visual Alarm Device). It combines a low profile design with dual  tri-colour status indication with 360° visibility. A remote indicator output is available to support a remote indicator up to 30 m away.

Detection reliability is ensured by combining dual optical wavelengths with multiple detection angles. This allows for state-of-the-art particle size detection that differentiates between real sources of alarm, or nuisance sources such as dust and steam. As a temperature detector, Class-A static and rate-of-rise modes are supported to further widen the application footprint.

### Integrated notification

Every detector supports a freely programmable, audible and visual alarm device that can be independently controlled from the CIE. The sounder supports 32 alarm tones, each configurable at 4 alarm levels that allows complete customisation for the application and the alarm situation. The EN54-23 certified VAD offers 3 power ratings adding to full flexibility for management of loop loading on a system level.

### User friendly

All detectors are individually identified by easily setting an address through 2, modern design rotary switches. The address is a directly identified number and does not require binary or hexadecimal conversions that significantly reduces the risk of incorrect addressing.

### Installation & maintenance friendly

All Excellence series detectors are compatible with a standard base which makes installation planning seamless and detectors easily interchangeable. Self-testing and drift compensation ensure safe operation with contamination warnings provided when maintenance is needed.

### Communication protocol

An enhanced protocol ensures the overall integrity and error-free operation of the system. The Excellence series protocol provides features like CRC error checking and multiple bus cycle codes to ensure reliability between panel and device communication. The Kidde Excellence protocol still support legacy 2000 series devices in combination with the Kidde Excellence series devices.




### Detalhes

- O isolador integrado assegura o funcionamento durante um curto-circuito no loop
- Isolador integrado na saída para sinalizador para proteção adicional do dispositivo
- Discriminação de vapor e poeira para maior tranquilidade
- Funcionamento temperatura fixa ou termovelocimétrico
- Indicadores tricolores para alarme, pré-alarme, isolamento e falha. Estado de comunicações eliminam as dúvidas sobre o estado operacional
- A visibilidade de 360° do indicador significa que não é necessário alinhar o dispositivo para garantir a visibilidade
- Novo mecanismo de endereçamento rotativo para um endereçamento fácil
- Registo de eventos no dispositivo para fins de diagnóstico
- Todos os níveis de sensibilidade com certificação EN54
- Suporta 32 tons, para várias fases em 4 níveis de alarme até 86 dB(A)
- Suporta a ativação de alarme visual com 3 níveis até C-3-9

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## Especificações técnicas

### General

| | |
|---|---|
| Status indication | LED tricolor |
| Compatibility | Sistemas Kidde Commercial Excellence |
| Alarm levels | 5 |
| Event log | Disponível |
| Connectivity | Série Excellence, base standard |
| Addressing method | Rotary switch |

### Electrical

| | |
|---|---|
| Power supply type | Alimentato ad anello |
| Operating voltage | 17 a 29 VDC |
| Communication voltage | 4 a 11 V impulso |
| Current consumption | < 40 mA (alarme a 24 VDC - depende do nível de notificação)<br>500 µA (quiescent a 24 VDC) |
| Terminals | 6 |

### Detection

| | |
|---|---|
| Detection principle | Dispersão ótica da luz, para a frente e para trás / Calor |
| Monitoring | Alarm threshold, Contamination level, Fault |
| Sensitivity | Selecionável |
| Coverage area | < 112 m² (ótico) / < 56.3 m² (calor) |
| Particle sensitivity range | 0.1 a 0.25 dB/m ±20% |
| Alarm temperature (maximum) | +70°C |
| Alarm temperature (minimum) | +54°C |
| Rate-of-rise | Suportado |
| Installation height | < 10.5 m (ótico) / < 7.5 m (calor) |
| Heat class (per EN54) | A2S / A2R |
| Test fires (to ISO 7240) | TF1, TF2, TF3, TF4, TF5, TF8, TF9 |

### Output

| | |
|---|---|
| Output quantity | 1 |
| Output type and rating | Sinalizador |
| Programmable | Não |
| Remote alarm output | <8 mA @ 12 VDC (±10%) |

### Isolation

| | |
|---|---|
| Type | Negativer Zeilenumbruch |
| Quantity per loop | ≤128 |
| Isolation voltage | 14 a 15.5 VDC |
| Reconnect voltage | 14 a 15.5 VDC |
| Loop current | 5 mA (isolado) |
| Switch current | 1.05 A (continuo) / 1.4 A (impulso) |
| Leakage current | <1 mA |
| Series resistance | <0.08 Ω |
| Impedance requirements | ≤32 dispositivos entre isoladores |

### Physical

| | |
|---|---|
| Physical dimensions | 101 x 54 mm (Ø x H) |
| Net weight | 205 g |
| Colour | Bianco (RAL 9016) |
| Mounting type | Montaggio su base |
| Material (body) | PC / ABS |
| Material (contacts) | Brass |
| Functional marking | Tipo dispositivo, Isolado |

### Environmental

| | |
|---|---|
| Vandal proof | No |
| Operating temperature | -10 a +55°C |
| Storage temperature | -30 a +75°C |
| Application temperature (maximum) | +50°C |
| Application temperature (typical) | +25°C |
| Relative humidity | 10 a 93% sem condensação |
| Environment | Drinnen |
| IP rating | IP20 |

### Regulatory

| | |
|---|---|
| Compliancy | CE, REACH, RoHS 3, WEEE |
| Certification | CPR |
| Voluntary marks | BOSEC |
| Standards | EN54-3, EN54-5, EN54-7, EN54-17, EN54-23 |

### Sounder

| | |
|---|---|
| Output level | 51 to 86 dB(A) - Tone dependent |
| Output level adjustment | 4 levels |
| Frequency | User selectable |
| Selectable tones | 32 |
| Synchronization | Supported |
| No. of stages | 3 |

### VAD

| | |
|---|---|
| Colour | Red |
| Rating | User selectable up to C-3-9 |
| Floor coverage | < 63 m² |
| Flash frequency | 0.2 Hz (1 flash every 2 s) |
| Synchronization | Supported |

### Produtos compatíveis

| Categoria | Referência | Descrição |
|---|---|---|
| Detection device | KE-DB3010W | Acessórios para detetores inteligentes da série Excellence - base standard |
| Notification device | PA25/3L | Sinalizador Remoto - Convencional |

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