# KE-DP3121W

## Detetor inteligente duplo ótico/térmico endereçável com isolador da série Excellence

### 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 is a Kidde Excellence series, signal white addressable dual optical and heat detector with integrated short circuit isolation. It combines a low profile design with tri-colour status indication with 360° visibility. A remote indicator output is available as standard that supports 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.

### 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

Self-testing and drift compensation ensure safe operation with a contamination warnings provided when maintenance is needed.

All Excellence series detectors are compatible with a standard base which makes installation planning seamless and detectors easily interchangeable.

### 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.

### Extended applications

A comprehensive range of additional devices and accessories complement every Excellence series device. Appart from a feature rich detector line, a comprehensive range of in- and outdoor manual call points as well as a variety of I/0 modules and accessories enrich the overall Excellence system capability.




### Detalhes

- Isolador integrado para assegurar o funcionamento durante um único curto-circuito no loop
- Saída para sinalizador remoto com isolador incorporado
- Discriminação vapor e poeira para maior tranquilidade
- Suporte funcionamento temperatura fixa ou termovelocimétrico
- LED Tricolor para indicação de alarme, pré alarme, isolado, falha.
- A visibilidade 360° do indicador significa que não é necessário alinhar o dispositivo para garantir a visibilidade
- Novo endereçamento rotativo mecânico para um fácil endereçamento
- Memória de eventos no dispositvo
- Todos os níveis de sensibilidade com certificação EN54

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## Especificações técnicas

### General

| | |
|---|---|
| Status indication | LED Tricolor |
| Compatibility | Kidde Commercial Excellence Systems |
| Alarm levels | 11 |
| Event log | Disponível |
| Connectivity | Série Excellence, base standard |
| Addressing method | Rotary switch |

### Electrical

| | |
|---|---|
| Power supply type | Loop powered |
| Operating voltage | 17 a 29 VDC |
| Communication voltage | 4 a 11 V pulsada |
| Current consumption | 200 µA (repouso a 24 VDC)<br>4.75 mA (alarme 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 (térmico) |
| 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 (térmico) |

### Output

| | |
|---|---|
| Output quantity | 1 |
| Output type and rating | Sinalizador remoto |
| Programmable | Não |
| Remote alarm output | < 8 mA |

### Isolation

| | |
|---|---|
| Type | Negative line break |
| 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 | 100 x 54 mm (Ø x H) |
| Net weight | 124 g |
| Colour | Traffic white (RAL9016) |
| Mounting type | Base mount |
| Material (body) | PC / ABS |
| Material (contacts) | Brass |
| Functional marking | Tipo dispositivo, Isolamento |

### 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 | Indoor |
| IP rating | IP20 |

### Regulatory

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

### Produtos compatíveis

| Categoria | Referência | Descrição |
|---|---|---|
| Detection device | KE-DB3010W | Acessórios para detetores inteligentes da série Excellence - base standard |

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