

KE-DM3110OS99

Excellence Series intelligent addressable manual call point w/ isolator

General

The KE-DM3100 Series is an intelligent range of addressable, Excellence Series manual call points with integrated isolation. The KE-DM3110OS99 is an orange, single action indoor MCP with an English "SMOKE EXTRACTION" functional indicator. It is delivered complete with resettable element, test connector and test key. Multiple optional accessories are available to facilitate most indoor installation requirements.

Aesthetics

This single action MCP is a standard profile, indoor MCP suitable for surface and flush mount installations using standard or legacy European electrical boxes. With its designer dual, tricolour LEDs it offers 180°, clear local indication of its operational status, even from a side view in a passage installation. The clean face of the MCP is further enhanced by a front access & test key facility that allows access to the back box and cabling, making additional fastening screw holes obsolete.

Installation & Maintenance Friendly

The front facing access for an aesthetically matching test key allows unhindered access regardless of the installation location. The MCP key doubles as a test and disassembly tool allowing removal of the MCP front cover without the need for additional tools.

Compatibility

The KE-DM3000 range may be used on all Kidde Excellence Series fire systems, and are also compatible with legacy Aritech fire systems. They can in many cases be deployed into existing systems without CIE configuration changes.



Details

- Reliable single action manual call point for recess or surface mounting
- Integrated short circuit isolation for added safety
- Dual, tri-colour status indicators offers 180° alarm visibility
- Tamper resistant design with resettable or frangible element
- Unobtrusive front facing test facility
- Standard mounting options facilitates easy retrofitting to existing installations
- Back box with rear, top and bottom cable entry
- Screen connection terminal in the back box for electrically noisy installations
- Pluggable connector with link through facility for ease of installation and pre-commissioning testing
- An alarm flag on the face of the manual call point allows alarm indication even without alarm LEDs
- Fast, no-tools-required maintenance using the test key
- Up to 128 devices supported per loop

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Technical specifications

General

| | |
|-------------------|---|
| Status indication | Dual LEDs |
| | Alarm (Red Constant) |
| | Isolated (Yellow Constant) |
| | Fault (Yellow Blinking) |
| | Communication (Green Blinking) |
| User interface | LEDs, alarm flag |
| Compatibility | Excellence and legacy Aritech series fire systems |
| Connectivity | 2-wire loop |
| Addressing method | DIP Switches |

Electrical

| | |
|---------------------|-------------------------------------|
| Power supply type | Loop powered |
| Operating voltage | 17 to 38 VDC |
| Current consumption | 200 µA (Quiescent) |
| | 2.8 mA (Alarm) |
| Cable specification | 0.404 to 2.05 mm (0.13 to 3.31 mm²) |
| No. of cable cores | 2 |
| Terminals | 4 (A+/A-;B+/B-) |

Detection

| | |
|---------------------|--------------------------------------|
| Detection principle | Push button/switch |
| Monitoring | Activated, Fault, Off, Short circuit |
| Response time | < 3 s |
| Installation height | Determined by local regulation |

Isolation

| | |
|------------------------|--------------------------------|
| Type | Negative line break |
| Quantity per loop | ≤ 128 |
| Isolation voltage | 14 to 15.5 VDC |
| Reconnect voltage | 14 to 15.5 VDC |
| Loop current | 1 A (Continuous) |
| Switch current | 1 A (Pulsed) |
| Leakage current | < 1 mA |
| Series resistance | < 0.06 Ω |
| Impedance requirements | < 32 devices between isolators |

Physical

| | |
|---------------------|--------------------------------|
| Physical dimensions | 87 × 87 × 26 mm (w/o back box) |
| | 87 × 87× 57 mm (w/ back box) |
| Net weight | 110 g (w/o back box) |
| | 165 g (w/ back box) |
| Colour | Orange (RAL 2008) |
| Mounting type | Back box, Wall mount |
| Material (body) | Flame retardant ABS |
| Functional marking | SMOKE EXTRACTION |

Environmental

| | |
|-----------------------|-------------------------|
| Vandal proof | No |
| Operating temperature | −25 to +72°C |
| Storage temperature | −25 to +72°C |
| Relative humidity | 10 to 95% noncondensing |
| Environment | Indoor |
| IP rating | IP41 |

Regulatory

| | |
|---------------|-------------------------|
| Compliance | CE, REACH, RoHS 3, WEEE |
| Certification | CE |
| Standards | EN54:17 |

Compatible products

| Category | Reference | Description |
|------------------|-----------|--|
| Detection device | N-MC-BB-O | MCP accessory, intelligent manual call point back box, orange |
| Detection device | N-MC-FC | MCP accessory, intelligent Manual Call Point flip cover |
| Detection device | N-MC-FE | MCP accessory, intelligent manual call point frangible element |

