KE-DM3110YS99

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-DM3110YS99 is a yellow, single action indoor MCP with an English "EXTINGUISHANT RELEASE" 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 fasting 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 29 VDC
Communication voltage	4 to 11 V pulsed
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	Yellow (RAL 1003)
Mounting type	Back box, Wall mount
Material (body)	Flame retardent ABS
Functional marking	EXTINGUISHANT RELEASE

Environmental

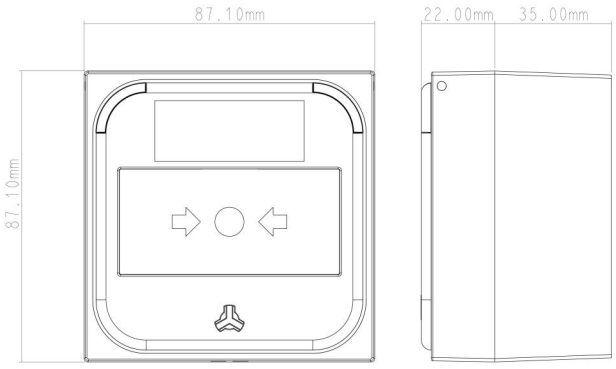
Vandal proof	No
Operating temperature	−25 to +72°C
Storage temperature	−25 to +72°C
Relative humidity	10 to 95% noncondensing
Environment	Indoor
IP rating	IP41

Regulatory

Compliancy	CE, REACH, RoHS 3, WEEE
Certification	CE
Standards	EN54:17

Compatible products

Category	Reference	Description
Detection device	N-MC-AFM-Y	Intelligent MCP accessory - flush mount adaptor - yellow
Detection device	N-MC-BB-Y	MCP accessory, intelligent manual call point back box, yellow
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



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