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DK 7338.321

Add-on unit

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FRIEDHELM LOH GROUP

DK 7338.321 - Add-on unit DET-AC III slave

In conjunction with the DET-AC III slave system, up to five bayed enclosures may be extinguished.





Features

Model No.	DK 7338.321
Product description	This add-on unit to the DET AC III Master includes an additional extinguisher unit. In addition to the DET-AC III unit, a DET-AC III slave unit is used for each additional bayed enclosure and supplies the extinguishing agent for that enclosure. Detection occurs via the DET-AC III master system, even when multiple enclosures are bayed together. If a main alarm is reported, the DET-AC III Master will activate extinguishing in all systems simultaneously.
Benefits	Innovative extinguisher FK 5-1-12: eco-friendly, non-critical for IT components, non-conductive 482.6 mm (19") rack mount with just 1 U Tested by VdS Schadenverhütung GmbH CAN bus interface to the CMC III monitoring system In conjunction with the DET-AC III Master, extinguishes up to five racks in an enclosure suite May be used in combination with EFD III Floating relay outputs (pre-alarm/main alarm/collective fault)
Technical specifications	Extinguisher is emitted via a propellant cartridge, with integral electrical activation unit Integral extinguisher monitoring (indication of >15% loss) Maximum admissible protection volume: 2.8 m³
Material	Sheet steel

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Features

Colour	Enclosure: RAL 7035 Front: RAL 9005
Extinguisher gas	Type: FK 5-1-12 Fill volume: 1.8 l
Tank	Material: Aluminium Volume: 2 l
Interfaces	4 x/3 x relay outputs for alarms and faults (terminals/RJ12 jacks) 1 x/1 x input for door contact switch (terminal/RJ12 jack) 2 x CAN connections for master-slave networking 2 x connection (external alarm/manual triggering device) 1 x voltage output for DET-AC slave III (24 V DC max. 500 mA) 1 x USB 2 x CAN bus interfaces to CMC III (max. 16 on PU/4 on PU Compact)
Uninterruptible mains electricity operation	approx. 4 h
Note	This system is designed solely for use in closed, non-accessible enclosure systems with a maximum volume of 2.8 m³. To ensure professional assembly and commissioning of the fire alarm and extinguisher system, it must be installed by a trained specialist. Rittal will be happy to assist you and can provide the relevant service.
Dimensions	Width: 482.6 mm Height: 44 mm Depth: 660 mm
Operating temperature range	10 °C...40 °C
Storage temperature range	-20 °C...65 °C
Storage temperature range of batteries	-15 °C...40 °C
Relative humidity (non-condensing)	96 %
Rated operating voltage	24 V (DC)
Packs of	1 pc(s).
Net weight	19 kg

Features

Gross weight	19.5 kg
PCF per pack (cradle-to-gate)	72.8 kg CO2 eq (Cat B)
CRA risk class	Default (Low Risk)
Note on PCF category	Category B: PCF value (cradle-to-gate) based on the product weight, approximately calculated and self-declared
Customs tariff number	84248970
ETIM 9	EC002685
ECLASS 8.0	40040104
Product description	DK DET-AC III slave, Add-on unit to the DET AC III Master, Extinguishing agent supply for each bayed enclosure, Detection and activation occurs via the DET-AC III master system, Communication Master-Slave via CAN bus interface

Approvals

Certificates	VDS
Explanations	Declaration of conformity

Tender text

DET-AC III Slave extinguisher system (add-on unit)

Add-on unit for expansion of an existing master system (fire alarm and extinguisher system or early fire detection system).
The compact system occupies 1 U of rack space and is designed for installation in the 19" level of closed server enclosure systems. It enables extinguishing for up to 5 bayed enclosures. To be able to activate an add-on unit, networking with a compatible master system (fire alarm and extinguisher system or early fire detection system) is necessary!
The master system provides for monitoring of the enclosures and sends corresponding control signals to its add-on unit(s) to activate the extinguishing process in case of a fire. Operation and indication of the current system status are by way of the master system.
The extinguishing agent used is FK 5-1-12, which is held in liquid form in the tank. When extinguishing is activated, the tank is pressurised.
The extinguishing agent vaporises at the nozzle and spreads through the protected space.
The extinguishing nozzle is located in the front panel of the unit.
The frame for installation of the extinguishing system is designed as a 19" rack module. The depth of the system is such that it can be installed in 19" server enclosures with an internal depth > 800 mm.
The pre-assembled system can be inserted or removed without interrupting operation of the equipment to be protected.
Up to 5 server enclosures can be monitored and extinguished.
The fire alarm and extinguisher system can be networked with up to 4 add-on units.
The early fire detection system can be networked with up to 5 add-on units.
The commissioning must be carried out by Rittal.
Technical data:
Width: 482.6 mm (19")
Height: 44 mm (1 U)
Depth: 660 mm
Housing material: Sheet steel
Weight: approx. 12.5 kg
Rated voltage: 24V DC from master system
Emergency power supply: approx. 4 h
Ambient temperature:

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+10 °C to +40 °C (operation)
-20 °C to +65 °C (storage)
Humidity: up to 96% (relative), non-condensing
Protection category: IP 30
Connections:
Terminal for relay output "Pre-alarm", "Fire alarm", "Extinguishing"
Terminal for relay output "Collective fault"
Terminal for door contact switch
Socket (RJ 12) for connection of door contact switch
3x sockets (RJ 12) for signal outputs "Fault", "Pre-alarm", "Main alarm"
2x CAN connection for system networking
Connection for external alarm device
Connector for manual alarm
Voltage supply (UB), max. 500 mA
USB port
CAN bus interface to CMC III
Protected space volume: max. 2.8 m3 (protected space must not display any recognisable openings)
External devices:
Connection for manual alarm
Connection for door contact
Connection for external alarm device
CAN bus interface to Rittal CMC III
Tank
Material: Aluminium
Empty volume: approx. 2.0 litres
Content: approx. 1.8 litres FK 5-1-12
Extinguishing agent discharged via pressure from propellant cartridge
Integrated electrical activation unit
Integrated extinguishing agent leakage/filling level monitoring (display from >15% loss)
Model No.: 7338.321
Manufacturer: Rittal GmbH & Co. KG

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