



CONTEG DATA SHEET

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COMPLEMENTARY SYSTEMS

LOCAL EXTINGUISHING SYSTEM (LES-RACK)

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Information is critically important to all of us and the security of our data needs to be ensured. One of the most dangerous threats to our data systems is fire. LES-RACK ensures that any fires occurring within the rack are dealt with quickly and effectively.

LES-RACK is a self-contained, fully automatic fire detection and protection system. Designed for installation directly into 19" racks with IP30 or higher. It offers a very efficient and effective solution for servers, telecommunication and control racks/cabinets. LES-RACK-M consists of a fully equipped automatic system of fire detection, control, evaluation, communication and extinguishing unit. Larger-sized server racks and adjacent cabinet units may be protected by additional auxiliary units LES-RACK-S consisting only of detection elements, communication and fire extinguishing unit.

System LES-RACK performs extinguishing on the principle of flooding the protected space with clean gas and maintaining required extinguishing concentration inside the protected space. The extinguishing unit is formed by cylindrical metal pressure cylinders filled with extinguishing mixture (clean extinguishing agent HFC-236fa Hexafluoropropane according to the certificate of Type issued by TUPO – Technical Institute of Fire Protection, Authorized Body 221) and pressured by propelling gas.

For detection of fire, each LES-RACK system is equipped with optical fire detectors, which – in order to eliminate false alarms – are interconnected in double-loop dependency and connected to the evaluation and control unit. Integrated control unit indicates system's current status, controls and evaluates actuation of the extinguishing unit. System LES RACK-M allows communication with the fire alarm control panel (FACP) of the building and reports the status: pre-alarm, alarm and extinguishing.



“With LES-RACK you have one les(s) thing to worry about!”

Code	Description
LES-RACK-M	Fire detection, control, evaluation, communication and fire extinguishing unit
LES-RACK-S	Detection elements, communications and fire extinguishing unit

LES-RACK parameter	Value
Unit width	483mm / 19"
Unit height	105mm / 2.5U
Unit base depth	382mm
Total depth of detection extension, according to the depth of protected equipment	max. 750mm
Weight of the system	15.5kg ± 3 %
Weight of extinguishing agent	2kg
Classification of environmental conditions according to EN 60721-3-3	3k5
Environment class	A
Operating temperature range	-5°C to 50°C
Relative humidity of air	95 % non-condensing
Atmospheric pressure	70 to 106kPa
Operating position	Horizontal - upper most position
Operation type	permanent
Operating pressure at 20°C	10bar
Maximum operating pressure	16bar
Shielding according to ČSN EN 55022	class B device
Electrical input power	max. 40VA
Protection class	IP30
Shielding class (non-interference)	RO2
Supply voltage of mains source	230V ± 15 %
Supply frequency of mains source	50Hz
Maximum current supplied by mains source	1.25A
Standby current	210mA
Current consumption during pre-alarm	300mA
Current consumption during alarm	2A
Max. current consumed by outputs in standby	40mA
Max. current consumed by outputs during alarm	0.5A
Max. output voltage on terminal X32 (batt. recharge)	13.7V
Max. current from terminal X32 (batt. recharge)	200mA
Backup power source (150x94x65mm)	12V / 7.2Ah

Local extinguishing system

