

LOCAL EXTINGUISHING SYSTEM (LES-RACK)



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

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

- LES-RACK is a self-contained, fully automatic fire detection and protection system (designed for direct installation into 19" racks with IP30 or higher) offering an efficient, effective solution for servers, telecommunication and control racks/cabinets. The LES-RACK-M unit comes with a fully equipped fire detection, control, evaluation, communication and extinguishing system. Larger-sized server racks and adjacent cabinet units may be protected with additional auxiliary LES-RACK-S units including fire detection, communication and extinguishing systems.
- LES-RACK employs clean gas, flooding the protected space until the fire is completely extinguished. The unit is comprised of metal cylinders filled with agent HFC-236fa Hexafluoropropane, in accordance with TUPO (the Technical Institute of Fire Protection, Authorization Body 221), and pressured by propelling gas.
- 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 an evaluation and control unit. This integrated control unit indicates the system's current status, controlling and evaluating the extinguishing unit. The LES RACK-M system allows communication with the building's fire alarm control panel (FACP), reporting the status – pre-alarm, alarm and extinguishing – as the process unfolds.

LES-RACK parameter	Value	LES-RACK parameter	Value
Unit width	483 mm / 19"	Electrical input power	max. 40 VA
Unit height	105 mm / 2.5U	Protection rating	IP30
Unit base depth	382 mm	Shielding class (non-interference)	R02
Total depth of detection extension, according to depth of protected equipment	Max. 750 mm	Supply voltage of main source	230 V ± 15 %
System weight	15.5 kg ± 3 %	Supply frequency of main source	50 Hz
Weight of extinguishing agent	2 kg	Maximum current supplied by main source	1.25 A
Classification of environmental conditions (according to EN 60721-3-3)	3 k5	Standby current	210 mA
Environment class	A	Current consumption during pre-alarm	300 mA
Operating temperature range	-5 °C to 50 °C	Current consumption during alarm	2 A
Relative air humidity	95 % non-condensing	Max. current consumed by outputs in standby	40 mA
Atmospheric pressure	70 to 106 kPa	Max. current consumed by outputs during alarm	0.5 A
Operating position	Horizontal – uppermost position	Max. output voltage on terminal X32 (batt. recharge)	13.7 V
Operation	Permanent	Max. current from terminal X32 (batt. recharge)	200 mA
Operating pressure at 20° C	10 bar	Backup power source (150×94×65 mm)	12 V / 7.2 Ah
Maximum operating pressure	16 bar	Maximum volume of protected cabinet (perforated – min. IP30)	1.5 m ³
Shielding (according to ČSN EN 55022)	Class-B device	Maximum volume of protected cabinet (closed)	3 m ³

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