

LPS Series MicroControl MI



NLM106A



Mobil Code



NLMIE30 + NLM102A

Schrack-Info

The MicroControl is a decentralised power supply system with limited power (Low Power System) for an operating time of 1, 3, or 8 hours. This system combines the high reliability of a decentralised system of self-contained luminaires with the cutting-edge ease and comfort of a Central Power Supply system.

The principle of decentralisation into fire compartments, similar to a system of self-contained luminaires, makes the high-cost installation of E30 cabling unnecessary.

The MicroControl works in switched mode 230 V AC / 216 V DC and can be fitted with up to 6 main circuits. Another circuit is integrated by default. This ensures that also conventional off-the-shelf luminaires with electronic ballast and an input voltage of 230 V AC/DC can be used. In combination with our innovative LED luminaire portfolio it is easy to optimise energy efficiency, service life and illumination in all parts of the building. With the integrated browser-based visualisation software the system can readily monitor all connected safety lights and exit sign luminaires and alerts the operator immediately in case of malfunctions. The installed luminaires can be displayed as icons on a blueprint of the building.

LPS Series MicroControl MI

Features

- Centralised power supply system according to the ÖVE/ÖNORM EN 50171 standard for emergency and safety lighting systems according to ÖVE/ÖNORM EN 50172, ÖVE/ÖNORM E 8002-1 and ÖVE E 8101.
- With an automatic test system according to EN 62034 for regular testing of every connected luminaire
- Autonomous system with combined switching type for non-maintained, maintained and switched maintained luminaires
- Easy-maintenance 19-inch slide-in design
- Integrated electronic test log for recording all data over a period of > 5 years
- Selection between different operating languages (English, German, ...)
- Administration and error indication of up to 20 luminaires per circuit
- 6 main circuits max., as 650 VA (DCM32) module insert plus one circuit for maintained or non-maintained operation with 150 VA max.
- System compatible with circuit module inserts NLDCM12E for centrally controlled individually switchable luminaires
- Status information of the system, circuits and luminaires in plain text and with operating LEDs
- Possible connection of additional external switch monitoring modules NLSAM24, NLMCLM, NLMCT15 via RS485 interface
- Up to 6 control inputs can be freely assigned to each circuit
- Networking of multiple systems via Ethernet (TCP/IP)
- Integrated web server for remote maintenance of the system, visualisation of floor plans and much more
- TÜV Rheinland certified - ID: 1111212721

Integrated light switch monitoring module SAM:

- 8 terminal wired light switch inputs (24-250 V DC, 220/230 V AC) for switching of the circuits in mains powered mode
- Terminal wired power supply for internal connection
- 3 programmable switching modes

Integrated IO module:

- 7 relay outputs, 230 V / 6 A, floating CO contacts
- 4 galvanically isolated switching inputs (24-250 V DC, 220/230 V AC), selectable polarity, programmable function
- Internal CAN bus connection

Integrated CCIF - Critical Circuit Interface Module

- Closed current loop monitoring
- Internal diode for overvoltage and overcurrent protection

Circuit Modules














Type:	Fusing:	Max. load per module:
DCM12E	4 x F5 A	1 A / 2 x 300 VA
DCM32	4 x F5 A	3 A / 2 x 650 VA

LPS Series MicroControl MI

Technical Data

Type of mounting:	Wall / free-standing
Body:	Sheet steel RAL 7035
Optional:	Fire proof body E30
Dimensions (HxWxD):	
Body:	630x350x230 mm
Fire proof body E30:	918x711x345 mm
Degree of protection/appliance class:	IP20 / I
Cable inlet:	Top
Mains connection:	230 V AC $\pm 10\%$ 50/60 Hz
Switched mode:	230 V AC / 216 V DC $\pm 15\%$
Output circuits:	Max. 6 + 1 circuits with switching between maintained or non-maintained mode for each circuit
Battery:	Maintenance-free, sealed OGiV lead acid battery 216 V DC (18 x 12 V / 5.2 Ah)
Max. power rating AC:	2000 VA
Max. power rating DC: *	1 h: 2.31 A / 500 W 3 h: 0.92 A / 200 W 8 h: 0.37 A / 90 W
Power loss no load mains operation:	boost charge: 70 W, trickle charge: 45 W
Power loss no load battery operation:	20 W
Mains fuse:	10 A
Recommended back-up fuse:	20 A
Recommended connection cross-sections:	Mains cables: 1.5-4 mm ² rigid Load circuits: 1.5-2.5 mm ² rigid
Weight:	57 kg (incl. batteries) E30 enclosure: 70 kg
Permitted ambient temperature:	+10°C to +35°C

*] Sum of all load circuits, incl. 25% battery ageing reserve

DESCRIPTION	AVAILABLE	ORDER NO.
Low Power Supply Systems		
Low power system MicroControl 2 circuits max. 40 luminaires total		NLMI102A
Low power system MicroControl 4 circuits max. 80 luminaires total		NLMI104A
Low power system MicroControl 6 circuits max. 120 luminaires total		NLMI106A
Accessories		
Slide-in circuit module 19" 2 x 1 A/300 VA – fuse 4x5 A, for emergency luminaires that can be individually switched from a central unit NL...EL, NL...E		NLDCM12E
Slide-in circuit module 19" 2 x 3 A/650 VA – fuse 5 A combined operation M/NM		NLDCM32
Plexiglass cover lockable for MicroControl		NLPLXMIC
Certified E30 enclosure for LPS MicroControl with fan, outer dimensions: 918x711x345mm (HxWxD), colour RAL7035, appliance class II, IP54, 70 kg		NLMIE30
Three-phase mains monitor with bus connection		NLMCLM
Three-phase power supply monitor PC230		NLPC2300
Light switch monitoring module 8 inputs, separate		NLSAM08
External printer for Micro- and MiniControl		NLBD04E
Signalling panel with LCD plain text display and bus connection		NLMCT15
Signalling panel with LCD plain text display, bus connection and key switch		NLMCT15S
Light switch monitoring module 8 inputs incl. line monitor, separate		NLSAM24
Replacement fan for E30 enclosure		NLLUINT
Filter mat for E30 enclosure		NLLUINTFM
Surcharge for WIFI module built in in Micro-, Mini-, Midi-, Maxi- or MultiControl		NLMIWLAN



Order no. blue: on stock, usually ready for delivery on the day of order