

EMERGENCY LIGHTING UNIT

ELULED NC

Emergency lighting combo driver for maintained and non-maintained LED applications



Technical specifications

Mains voltage range	220...240 V
Mains frequency	50 / 60 Hz
Output voltage range	2,8...13,5 V
Output current in maintained operation	100...700 mA
Power consumption	max. 15 VA
Switchover time mains – emergency	< 0,5 s
Max. housing temperature t_c	65 °C
Ambient temperature t_a	5...50 °C
Functionality test	randomised every 8 to 8.25 days throughout 2 min.
Capacity test	four full battery discharges annually
Battery charging time	24 h
Protection classes	I und II
Protection type	IP20
Weight	60 g
C housing dimensions	L 165 x B 24 x H 21 mm
Hole spacing	157 mm

Product description

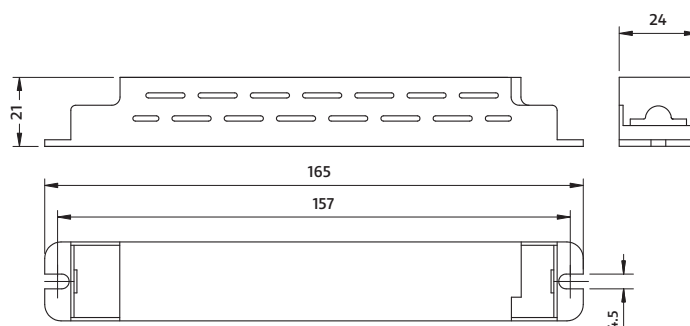
The emergency lighting combo driver ELULED NC operates LED modules within a range of 2,8 to 13,5 V in maintained operation and provides a constant power output to the LED array in non-maintained mode. The integrated selftest functionality complies with the IEC 62034 standard. The narrow and space-saving polycarbonate housing fits into a wide range of emergency luminaires and exit signs along with the equally compact LFP batteries. A battery regeneration process for capacity optimisation is initiated automatically after commissioning as well as after each battery exchange to allow for the maximum battery lifetime.

- Self-contained emergency lighting combo driver for maintained and non-maintained operation
- Suitable for emergency luminaires and exit signs with LED arrays between 2,8 and 13,5 V
- Polycarbonate housing L 165 x B 24 x H 21 mm

Properties

- Maintained and non-maintained operation
- Selftest complying with IEC 62034
- Electronic control of LED current in maintained operation
- Current in maintained operation between 100 und 700 mA within the maximum output power of 5 W, automatic detection of LED voltage, other values upon request
- 1, 3 or 8 h emergency duration, other values upon request
- Constant output power in emergency mode, depending on specified battery type (see table on page 2)
- SELV
- Optional bus communication (DALI or M-Bus)
- Bi-colour LED status display
- Deep discharge protection
- Ambient temperature range 5 to 50 °C
- 60 months warranty

C housing

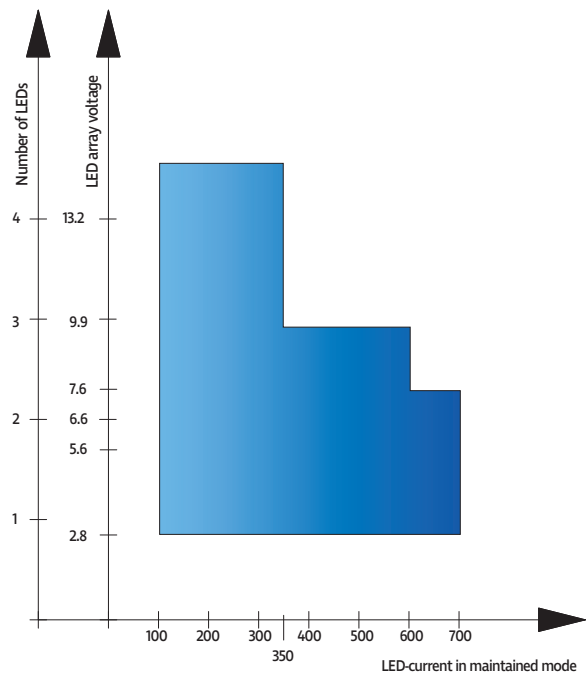


Technical data

Specifications \ Type	ELULED NC
LED voltage in maintained mode	min. 3 V max. 13,5 V
LED current in maintained mode	100...700 mA
Output power in maintained mode	max. 5 W
Emergency operation duration	1, 3 or 8 h ¹⁾
SELV	✓
Suitable for protection class I and II luminaires	✓
Product reference for DALI communication	ELULED NC FDS
Product references for wireless communication	ELULED NCW-8X ²⁾ ELULED NCI-8A ³⁾
Battery	LFP (1x, 2x or 3x18650 type cells)

¹⁾ other values upon request
²⁾ including connector for external antenna
³⁾ antenna mounted on separate PCB

Operation range in maintained mode



Emergency output power

Device type	Emergency duration	Output power	LFP battery type	Max. maintained output
ELULED NC xxx/1h/1LI	1 h	1,2 W	1x1865 3.2V-1.5Ah	5 W
ELULED NC xxx/1h/2LI	1 h	2,4 W	2x1865 3.2V-3Ah	5 W
ELULED NC xxx/1h/3LI	1 h	3,6 W	3x1865 3.2V-4.5Ah	5 W
ELULED NC xxx/3h/1LI	3 h	0,55 W	1x1865 3.2V-1.5Ah	5 W
ELULED NC xxx/3h/2LI	3 h	1,2 W	2x1865 3.2V-3Ah	5 W
ELULED NC xxx/3h/3LI	3 h	1,8 W	3x1865 3.2V-4.5Ah	5 W
ELULED NC xxx/8h/1LI	8 h	0,16 W	1x1865 3.2V-1.5Ah	5 W
ELULED NC xxx/8h/2LI	8 h	0,35 W	2x1865 3.2V-3Ah	5 W
ELULED NC xxx/8h/3LI	8 h	0,5 W	3x1865 3.2V-4.5Ah	5 W

xxx = LED current in maintained operation, not relevant for non-maintained operation

Selftest

- Selftest as per IEC 62034
- Bi-colour LED status display (see selftest data sheet for details)
- Battery status
- LED module status
- Charging cycle

Batteries

- High temperature cells 5 to 50 °C
- LFP batteries consisting of 18650 type cells
- Charging time 24 h
- Automatic battery regeneration process for capacity optimisation
- See battery data sheets for details

Safety

- Protection classes I and II
- Protection type IP20
- SELV

Certification mark

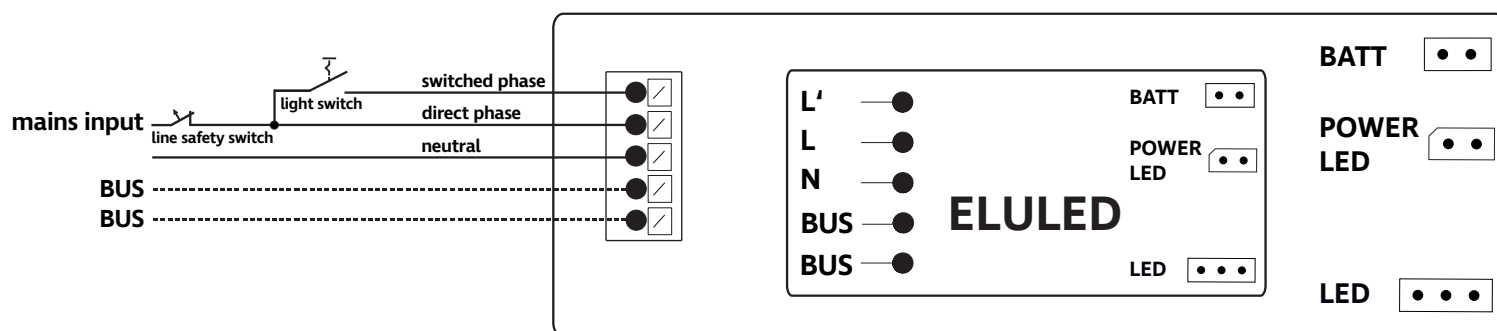
- CE
- EN 62620 (LFP battery performance)
- EN 62133 (LFP battery safety)



Standards

- EN 60598-2-22
- EN 61347-2-7
- EN 61347-2-13
- EN 62386
- EN 62034
- EN 55015
- EN 61000-3-2
- EN 61000-3-3
- EN 61547
- geeignet in Anlagen nach: VDE 0108 oder EN 50172

Connection diagram



All information is supplied without liability. Technical data subject to change without notice.