LIGHT FITTING WITH AWEX´S EMERGENCY MODULE

In the light fitting is used the emergency module **UNILED BM STANDARD** or **UNILED BM PREMIUM**

Technical data of the emergency module:

Rated supply voltage:	220 - 240 V AC
Mains frequency:	50 / 60 Hz
Power output of emergency modules:	3 W
Ambient temperature (ta):	0 °C - +40 °C
Max. casing temperature of the emergency module (tc):	0 °C - +70 °C
Maintenance-free high-temperature cells:	NiCd - Standard; $LiFePO_4$ - Premium
Accumulator voltage	3,6 V (NiCd); 6,4 V ($LiFePO_4$)
Accumulator capacity:	1,5 Ah - 1 h (NiCd / $LiFePO_4$); 3 Ah - 3 h ($LiFePO_4$); 4 Ah - 3 h (NiCd)
Battery charge time:	24 h - Standard; 12h - Premium
Charge current:	70 mA - 1 h (NiCd); 165 mA - 3 h (NiCd) 130 mA - 1 h ($LiFePO_4$); 400 mA - 3 h ($LiFePO_4$)
LED current in emergency mode:	1000 mA
LED voltage in emergency mode:	3 V
Cross-sections of connecting wires:	0,5 - 1,5 mm^2

Characteristic of the emergency module:

Automatic switchover between network and emergency supply of the light fitting.
LED signalling of the condition of the emergency module.
Protection from complete discharge of the accumulator.
Small dimensions and simple mounting.

Mounting and operation:

The accumulator must be disconnected from the emergency module during the storage.
The voltage of one cell must not drop below 1,05 V (NiCd) or 2,60 V ($LiFePO_4$).
The replacement of the battery is necessary if the light fitting does not meet the nominal service life – after 4 years at the most.
In order to activate new batteries, 3 full charging-discharging are needed to make sure batteries achieve their rated capacity. The accumulator must be charged 24 hours.
The function of the emergency module has to be checked every month – if the light fitting does not work check the light source and the accumulator.
Do the function test by disconnecting the mains.
To prevent the discharge of the accumulator connect the accumulator to the module only when the light fittings is connected to the mains.

Advice:

The manufacturer is not responsible for the defects caused by improper handling of the light fitting.
The light fitting must be connected to electric grid by a professional technician in accordance with valid standards and regulations.
Do not check the duration test sooner than 36 hours after connecting the light fitting to the electric grid.
The emergency module only works correctly when the accumulator is fully charged.
Maximum current in through-wiring is 10 A for cross-section 1,5 mm^2 and 16 A for 2,5 mm^2.

Test types (version AUTOTEST):

Test A is run automatically every 28 days. During test A a conversion kit is switched to emergency mode for 1 minute and the following parameters are checked: control of battery power discharge and control of battery voltage.
Test B is run automatically every 364 days. During test B a conversion kit is switched to emergency mode for all duration time (1, 3 hours) and the following parameters are checked: control of battery power discharge and control of minimum battery voltage.

In case of problems or doubts, contact your supplier!

LED indicator of UNILED BM STANDARD

LED color	*Signal*	*Status*
green	no signal	emergency mode / failure mode
	shining	system OK (AC mode)

LED indicator of UNILED BM PREMIUM

LED color	*Signal*	*Status*
red	no signal	emergency mode / running test
	shining	defective battery
	flasing	defective lamp
green	no signal	emergency mode / running test
	shining	standby mode (battery is full)
	flashing	battery is being loaded

Options table of UNILED BM STANDARD:

Type	*Duration time*	*Accumulator*	*Power output*	*Luminous flux in emergency mode*
BM/3/1/PT/CD	1 h	NiCd 3,6 V; 1,5 Ah	3 W	450 lm
BM/3/3/PT/CD	3 h	NiCd 3,6 V; 4 Ah	3 W	450 lm

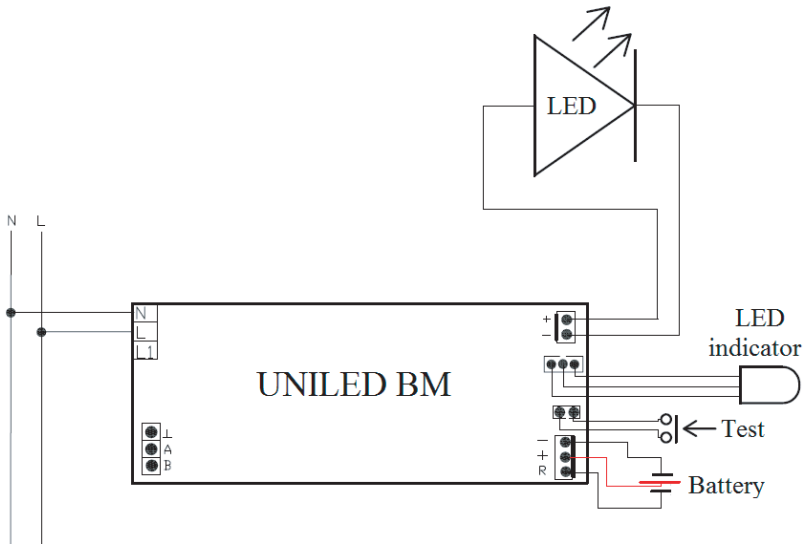
Options table of UNILED BM PREMUIM:

Type	*Duration time*	*Accumulator*	*Power output*	*Luminous flux in emergency mode*
BM/3/1/AT/Li	1 h	$LiFePO_4$ 6,4 V; 1,5 Ah	3 W	450 lm
BM/3/3/AT/Li	3 h	$LiFePO_4$ 6,4 V; 3,0 Ah	3 W	450 lm

Wiring diagram of the emergency module:

!!! The light fitting and the emergency module must be supplied from the same phase!!!

Non-maintained (emergency only):



Maintained:

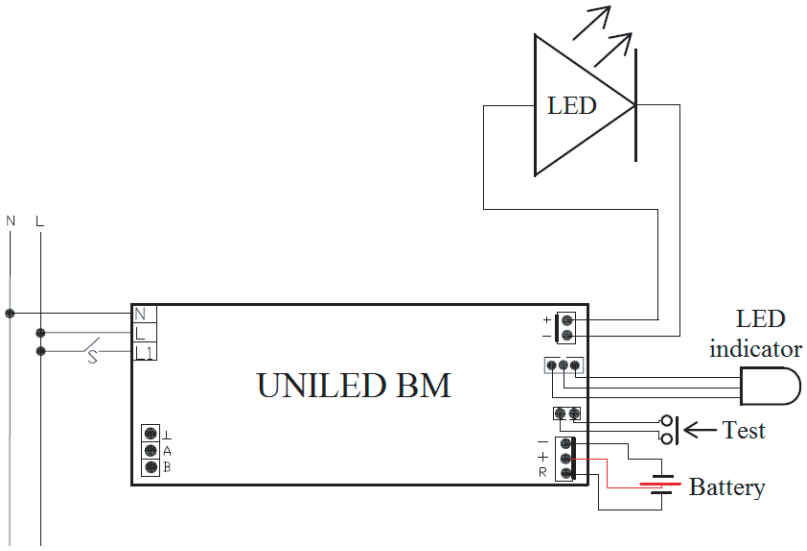


Table for customer's records of the course of tests and service life of emergency module of light fitting.

Type:		Date of installation:				Place of installation:			
month	test	1st YEAR		2nd YEAR		3rd YEAR		4th YEAR	
		date	signature	date	signature	date	signature	date	signature
1	FUNCTION								
2	FUNCTION								
3	FUNCTION								
4	FUNCTION								
5	FUNCTION								
6	FUNCTION								
7	FUNCTION								
8	FUNCTION								
9	FUNCTION								
10	FUNCTION								
11	FUNCTION								
12	FUNCTION								

month	test	5th YEAR		6th YEAR		7th YEAR		8th YEAR	
		date	signature	date	signature	date	signature	date	signature
1	FUNCTION								
2	FUNCTION								
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