

EXTRA-N-LED, MULTIEXTRA-N-LED, EXTRA-N-LED-Em Installation and Operations Manual

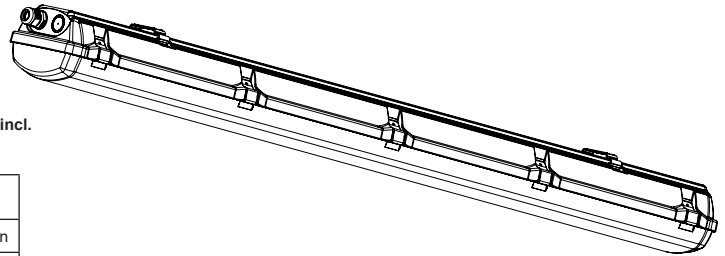


phX 2 UKEX 1202X

Ex II 3G Ex nR IIC T6 Gc

Ex II 3D Ex tc IIIC T80°C Dc

IP66, insulation class I



The explosion proof light fitting meet the standards according to the UK SI 2016 No.1107 (incl. amendments). They can be used in areas with danger of explosion as follows:

Area with danger of explosive	Marking of exterior ambient	Classification of area	
		Marking	Complutory regulation
Danger of explosion of inflammable dust	BE3N1	ZONE 22	ČSN EN 60079-14 ČSN EN 60079-10-2
Danger of explosion of inflammable gas and vapors	BE3N2	ZONE 2	ČSN EN 60079-14 ČSN EN 60079-10-1

In case of any erving on light fitting in premises with danger of exlosion, the national safety rules and regulation for prevention of accidents are to be observed.

EXTRA-N-LED are LED dust proof and waterproof lighting fixtures designed for lighting premises with danger of explosions.

EXTRA-N-LED-Em - non maintained emergency lifting.

MULTIEXTRA-N-LED - maintained emergency lifting.

Technical data:

Permitted range of operating temperatures for 220-240V, 50/60Hz

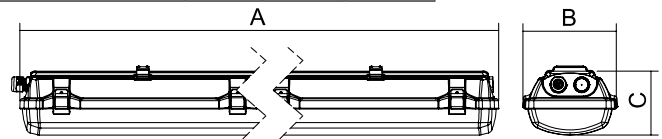
EXTRA-N-LED-2500/5000-218/236	-20°C to +60°C
EXTRA-N-LED-5000/7500-218/258	-20°C to +55°C
EXTRA-N-LED-12550-258	-20°C to +45°C
EXTRA-N-LED-10000-236	-20°C to +40°C
EXTRA-N-LED-16700/20000-258	-20°C to +40°C
MULTIEXTRA-N-LED-2500-218	0°C to +35°C
MULTIEXTRA-N-LED-5000/7500-236/258	0°C to +40°C
MULTIEXTRA-N-LED-12550/258	0°C to +35°C
EXTRA-N-LED-Em-500-218/236/258	0°C to +50°C
EXTRA-N-LED-Em-1000-218/236/258	0°C to +40°C

Nominal voltage and frequency:

for electronic ballast HELVAR:	220-240V, 0/50-60Hz
for electronic ballast TRIDONIC:	220-240V, 0/50/60Hz
for electronic ballast TCI:	220-240V, 0/50-60Hz
for emergency unit AWEX:	220-240V, 50/60Hz
for emergency unit TRIDONIC:	220-240V, 50/60Hz

Lighting fixture dimensions:

Type	A(mm)	B (mm)	C (mm)
EXTRA-N-LED-218	670	155	105
EXTRA-N-LED-236	1280	155	105
EXTRA-N-LED-258	1580	155	105

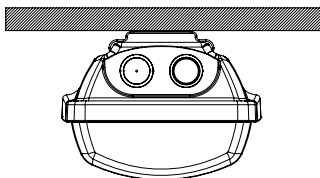


Maximum number of continuously connected luminaires for circuitbreaker type B10A

EXTRA-N-LED MULTIEXTRA-N-LED	
EXTRA-N-LED-2500-218	23
EXTRA-N-LED-5000-218	23
EXTRA-N-LED-5000-236	23
EXTRA-N-LED-10000-236	18
EXTRA-N-LED-7500-258	18
EXTRA-N-LED-12550-258	18
EXTRA-N-LED-16700-258	9
EXTRA-N-LED-20000-258	9

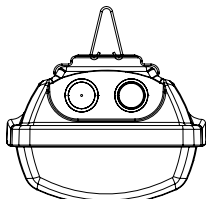
Pic. 1

With fastening spring directly on the base (included)



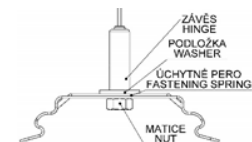
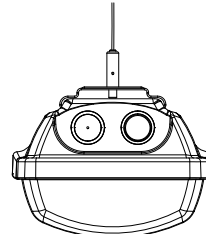
Pic. 2

With steel wire hanger (not included)



Pic. 3

With a cable suspension (not included)



Operation and maintenance instructions:

The light fittings, which operate in areas of above mentioned premises, are under the requirements resulting from compulsory regulations of valid EN:

- The light fitting must not be open, if the terminal block is alive.
- Free outlets for supply cable must be sealed with plugs M20.
- Any change or replacements of components of the light fittings, which can influence the protection before the danger of explosion, are forbidden.
- The repair of the light fittings can be done only by person with relevant qualification, only with original spare parts and in compliance with the latest regulations.

1) Certificate of type phX 22 UKEX 1202X

Mountig:

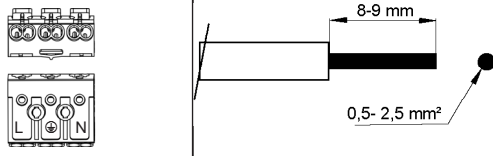
1. Remove reflector from the luminaire.
2. Remove the bag with equipment.
3. The side opening in the body plant the cable gland (which is included in the luminaire equipment), and on the other side of her body screw the nut.Cable gland nut to the body, tighten torque 2,7Nm.
4. To the hinges on the body insert clips from equipment luminaire.
5. Fasten the lighting fixture on the base:
 - a) With fastening spring directly on the base pic. 1
 - b) With steel wire hanger (no included) pic. 2
 - c) With a cable suspension (no included) pic. 3.

Note: another method of fastening is not allowed!

6. Pull the power cable through the cable gland. Tighten bushings to a state of partial deformation of the rubber sealing washers, tightening torque 2,5Nm. Supply cable must have an outer diameter in the range (see. Table sealing areas), which is a necessary condition for correct function of cable gland. Hole for power cable in the housing, which is not used cable gland (which is contained in the equipment luminaires), seal blanking plug. In the luminaire is not allowed to use respiratory protective plugs and cable glands breathing

7.Connect the suppling cable to the free part of incoming terminal strip as follows:

EXTRA-N-LED		EXTRA-N-LED-Em		MULTIEXTRA-N-LED	
L	phase conductor	L1	cond. of charging phase	L1	cond. of charging phase
-	-	-	-	L2	cond. of switching phase
N	neutral conductor	N	neutral conductor	N	neutral conductor
⊕	protective conductor	⊕	protective conductor	⊕	protective conductor



* To each pole of terminal block can be connected two conductors in cut 0,75 - 2,5 mm². In case of through-wiring connection it is necessary to use accessories for such connection! In case that the label with the description of connection is glued on the reflector of luminaire, you must do connection according this description.

8. Fasten reflector back to plastic handles.
9. Insert the stainless clips (which are included in the equipment) into the prepared plugs on body.
10. Attach the glass cover on the fixture:
 - attach the optical cover that all round landed on a seal which is disposed in the fixture
 - Optical cover secure by the stainless steel clips, secure each clip with the screw included with the luminaire.

Test of operation:

For correct operation it is necessary to observe enclosed instruction about testing of emergency fixtures. Switch the luminaire off the mains voltage. The emergency LED module must light. The green LED in the reflector is off. Should the emergency lamp be extinguished within the test period though the battery is fully charged, the latter will have to be replaced by a new battery set.

Warning: The full battery capacity will be available after approximately three charging/discharging cycles.

Battery change:

"Replace the battery in a non-explosive environment"

Battery change is necessary when the fixture doesn't observe the conditions of rated operation period durability. In explosive area it is prohibited to disconnect battery for emergency unit. It is allowed to disconnect the fixture from supply voltage and take remove reflector from the fixture.

11. Disconnect the fixture from supply voltage.
12. Remove reflector from the housing.
13. Disconnect cable from terminal block.
14. Disconnect battery from emergency unit in non-explosive area as follows „-“black conductor and „+“red conductor.
15. Unbolt the nut of battery holder
16. Remove the old battery.
17. Screw the new battery (mark the date of operation start).
18. Connect conductors to battery as follows „+“red conductor and „-“black conductor.
19. Connect the fixture to supply voltage.
20. Equip with reflector and cover. Fix it with the clips.

WARNING: The battery in the fixture can be changed for the same type or the same parameters only!!!

Table: List of cable glands:

Cable glands	Diameter of the cable for cable glands M25x1,5
OBO V-TEC Ex	∅ 7 mm - 12 mm
CEAG CHG 960 92.. P...	∅ 5,5 mm - 13 mm
WISKA ESKE/1 (S)(-L)(-+)(-RDE)	∅ 7 mm - 13 mm
ELFIT UNI	∅ 7 mm - 12 mm
BIMED LYRA (EURO-TOP)	∅ 7 mm - 12 mm

In case of any interventions on fixture lighting in premises with danger of explosion, the national safety rules and regulation for prevention of accidents are to be observed. EXTRA-N-LED are LED based dust proof and waterproof lighting fixtures designed for lighting premises with danger of explosions.



The light source and gasket in this lighting fixture can be replaced only the manufacturer, its contractual service personnel or a similarly qualified person. When installing lighting fixtures, observe the ESD safety using appropriate tools!
When the mounting instructions are not observed, the producer can't be responsible for incidental damages incurred.

The light source and gasket in this lighting fixture can be replaced only producer, its contractual service personnel or a similarly qualified person. Any modification or replacement of components on the luminaire that affects the protection against dangerous explosions is prohibited.
Repairs to luminaires may only be carried out by a suitably qualified person and only with original spare parts.



ATTENTION!!!

For wall installation of lighting fixture must be LED driver positioned facing downwards

WARNING – potential danger of electrostatic charging.

WARNING – the lighting fixture must be installed in the position, which does not allow the touch of persons and parts of the fixture. WARNING – the lighting for fixed installation.

WARNING – the fixture should be cleaned with damp duster only. It is necessary to keep periodic cleaning intervals of lighting fixture WARNING – do not open under voltage.

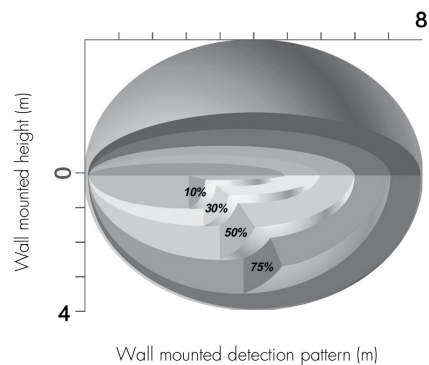
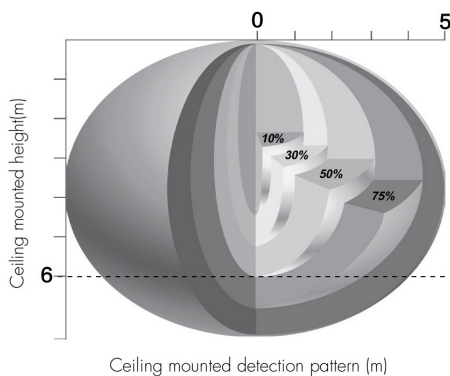
WARNING – replace protective cover

MWS - Optional Microwave Sensor

Factory settings:

- Detection range: 100%
- Hold Time: 5s
- Daylight Threshold: Disabled

Detection Pattern



DIP Switch Settings

1 Detection Range

Sensor sensitivity can be adjusted by selecting the combination on the DIP switches to fit precisely for each specific application.

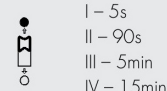
	1	2	
I	●	●	100%
II	●	○	75%
III	○	●	50%
IV	○	○	10%



2 Hold Time

Select the DIP switch configuration for the light on-time after presence detection. This function is disabled when natural light is sufficient.

	3	4	
I	●	●	5s
II	●	○	90s
III	○	●	5min
IV	○	○	1.5min

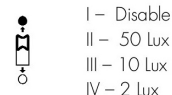


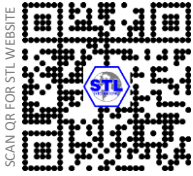
3 Daylight Threshold

Set the level according to the fixture and environment. The light will not turn on if ambient lux level exceeds the daylight threshold preset.
Please note that the ambient lux level refers to internal light reaching the sensor.

Disabling the daylight sensor will put the sensor into occupancy detection only mode.

	5	6	
I	●	●	Disable
II	●	○	50Lux
III	○	●	10Lux
IV	○	○	2Lux





Declaration of Conformity

Product: LED Linear luminaire EXTRA-N-LED, EXTRA-N-LED-Em, MULTIEXTRA-N-LED

Models:

LED PCB – 3W-120W	
EXTRA-N-LED-1250-218	-20°C < ta < +45°C
EXTRA-N-LED-2500-218	-20°C < ta < +60°C
EXTRA-N-LED-5000-218	-20°C < ta < +55°C
EXTRA-N-LED-2500/5000-236	-20°C < ta < +60°C
EXTRA-N-LED-10000-236	-20°C < ta < +40°C
EXTRA-N-LED-3750/7500-258	-20°C < ta < +55°C
EXTRA-N-LED-12550-258	-20°C < ta < +45°C
EXTRA-N-LED-16700/20000-258	-20°C < ta < +40°C
MULTIEXTRA-N-LED-1250/2500-218	0°C < ta < +35°C
MULTIEXTRA-N-LED-2500/5000-236	0°C < ta < +40°C
MULTIEXTRA-N-LED-3750/7500-258	0°C < ta < +40°C
MULTIEXTRA-N-LED-12550-258	0°C < ta < +35°C
EXTRA-N-LED-Em-500-218/236/258	0°C < ta < +50°C
EXTRA-N-LED-Em-1000-218/236/258	0°C < ta < +40°C
EXTRA-N-LED-H-12550-258	-20°C < ta < +45°C
EXTRA-N-LED-H-16700/20000-258	-20°C < ta < +40°C

IP66, Class I,

phX 22 UKEX 1202X



II 3G Ex nR IIC T6 Gc

II 3D Ex tc IIIC T80°C Dc

**UK
CA**

Manufacturer: STL INTERNATIONAL LTD

Hill Farm, Linton Hill, Maidstone, Kent, ME17 4AL, United Kingdom

We declare, under our sole responsibility, that the object of the declaration described above is in conformity with the relevant UK Statutory Instruments (and their amendments):

- | | |
|--------------|--|
| 2016 No.1107 | The Equipment and Protective Systems Intended for Use in Potentially Explosive Atmospheres Regulations 2016 |
| 2016 No.1091 | The Electromagnetic Compatibility Regulations 2016 |
| 2012 No.3032 | The Restriction of the Use of Certain Hazardous Substances in Electrical and Electronic Equipment Regulations 2012 |

The following standards have been applied for certification:

- EN 60079-0:2018 including amendments
- EN 60079-15:2019
- EN 60079-31:2014
- EN 60598-1:2015 including amendments
- EN 60598-2-1:1989 including amendments
- EN 60598-2-22:2014 including amendments
- EN 60598-2-24:2013
- EN 62471:2008
- EN 55015:2019 including amendments
- EN 61000-3-2:2019 including amendments
- EN 61547:2009

Maidstone, 5 December 2022

Place and date of issue


Ing Peter Heyse
Managing Director