

2.12

Ex-Linear light fittings for fluorescent lamps

nLLK 08 18 W - 58 W
(Zone 2, 21, 22)

The lighting solution for hazardous areas in Zones 2, 21 and 22

The linear luminaires series nLLK 08 for fluorescent lamps combines the latest lighting technology with the requirements of a harsh and hazardous environment. This luminaire is available both as a ceiling mounted luminaire (nLLK), as well as a pole mounted light fitting (nLLM) in 3 sizes (18, 36 or 58 W).

Long-term safety

The luminaires of this robust lighting series with plastic enclosure are equipped with a highly-efficient electronic ballast, which has a reliable EOL circuit. Thus, the lamps are checked for proper operation and shut down safely in the event of a malfunction at the end of their service life. With these luminaires, you are always on the safe side.

Simple and cost-effective installation

In conjunction with the generously dimensioned terminal compartment, the standard single-ended through-wiring allows a cost-effective installation. The double-sided locking facility with 10 or 20 latch points allows the protective bowl to be hinged on both sides, meaning that the fitting can be mounted on either side.

Just in case: The emergency lighting version

Safety is always our top priority. That is why we offer the nLLK 08 light fitting series with a built-in V-CG-S module. These luminaires can be connected to a CEAG emergency supply system with individual function monitoring. In the event of an emergency, they provide a reliable illumination of your safety and escape routes. The N variants (Section 1.2.92) are available as emergency light fittings with a self-contained battery unit.

NEC Standards

The tried and tested luminaires of the types nLLK 982217 (2 x 17 W) and nLLK 924232 (2 x 32 W) are available for use according to NEC-standards.



Features

- Cost-effective installation due to single-ended through-wiring
- EVG with EOL monitoring
- Double-sided safety lock
- High degree of protection IP66
- Connection to CEAG emergency light monitoring systems possible (CG-S)

Ordering details











| Type | Content | Terminals | Through-wiring single-ended | Through-wiring twin-ended | Cable gland/ thread | Threaded plug | Blanking plug | Order No. |
|--|----------------------|-----------|--------------------------------|------------------------------|--------------------------|------------------|------------------|-----------------------|
| nLLK 08018/18 | | | | | | | | |
| nLLK 08018/18 (2 x 18 W) | 1/3-1K | 1 x 3 | x | – | 1 x M25, plastic | 1 x M25 | | 1 3465 218 001 |
| nLLK 08018/18 (2 x 18 W) | 2/5-2K | 2 x 5 | – | x | 2 x M25, plastic | 2 x M25 | 1 | 1 3465 218 011 |
| nLLK 08018/18 (2 x 18 W) | 2/6-2M ¹⁾ | 2 x 6 | – | x | 4 x M20, metal thread | 2 x M20 | | 1 3465 218 021 |
| nLLK 08018/18 (2 x 18 W) | 1/3-1M ¹⁾ | 1 x 3 | x | – | 2 x M20, metal thread | 1 x M20 | | 1 3465 218 031 |
| nLLK 08036 | | | | | | | | |
| nLLK 08036 (1 x 36 W) | 1/3-1K | 1 x 3 | x | – | 1 x M25, plastic | 1 x M25 | | 1 3465 136 001 |
| nLLK 08036 (1 x 36 W) | 2/5-2K | 2 x 5 | – | x | 2 x M25, plastic | 2 x M25 | 1 | 1 3465 136 011 |
| nLLK 08036 (1 x 36 W) | 2/6-2M ¹⁾ | 2 x 6 | – | x | 4 x M20, metal thread | 2 x M20 | | 1 3465 136 021 |
| nLLK 08036/36 | | | | | | | | |
| nLLK 08036/36 (2 x 36 W) | 1/3-1K | 1 x 3 | x | – | 1 x M25, plastic | 1 x M25 | | 1 3465 236 001 |
| nLLK 08036/36 (2 x 36 W) | 2/5-2K | 2 x 5 | – | x | 2 x M25, plastic | 2 x M25 | 1 | 1 3465 236 011 |
| nLLK 08036/36 (2 x 36 W) | 2/6-2M ¹⁾ | 2 x 6 | – | x | 4 x M20, metal thread | 2 x M20 | | 1 3465 236 021 |
| nLLK 08036/36 (2 x 36 W) | 1/6-1M ¹⁾ | 1 x 3 | x | – | 2 x M20 metal thread | 1 x M20 | | 1 3465 236 031 |
| nLLM 080... Pole mounting light fitting | | | | | | | | |
| nLLM 08018/18 (2 x 18 W) | 1/3-1K | 1 x 3 | – | – | 1 x M25, plastic | – | | 1 3465 218 101 |
| nLLM 08036/36 (2 x 36 W) | 1/3-1K | 1 x 3 | – | – | 1 x M25, plastic | – | | 1 3465 236 101 |
| nLLK 08058 | | | | | | | | |
| nLLK 08058 (1 x 58 W) | 1/3-1K | 1 x 3 | x | – | 1 x M25, plastic | 1 x M25 | | 1 3465 158 001 |
| nLLK 08058 (1 x 58 W) | 2/5-2K | 2 x 5 | – | x | 2 x M25, plastic | 2 x M25 | 1 | 1 3465 158 011 |
| nLLK 08058 (1 x 58 W) | 2/6-2M ¹⁾ | 2 x 6 | – | x | 4 x M20, metal thread | 2 x M20 | | 1 3465 158 021 |
| nLLK 08058/58 | | | | | | | | |
| nLLK 08058/58 (2 x 58 W) | 1/3-1K | 1 x 3 | x | – | 1 x M25, plastic | 1 x M25 | | 1 3465 258 001 |
| nLLK 08058/58 (2 x 58 W) | 2/5-2K | 2 x 5 | – | x | 2 x M25, plastic | 2 x M25 | 1 | 1 3465 258 011 |
| nLLK 08058/58 (2 x 58 W) | 2/6-2M ¹⁾ | 2 x 6 | – | x | 4 x M20, metal thread | 2 x M20 | | 1 3465 258 021 |

Scope of delivery without lamp and fixing accessories

Metal cable glands see catalogue part 2: 2.3.12 ff

¹⁾ with metal thread, without cable gland

Ordering details

| Type | Content | Terminals | Through-wiring single-ended | Through-wiring twin-ended | Cable gland/ thread | Threaded plug | Blanking plug | Order No. |
|--|---|----------------------|--------------------------------|------------------------------|-----------------------------------|------------------|------------------|-----------------------|
| nLLK 08... V-CG-S ²⁾ | | | | | | | | |
|  | nLLK 08018/18 V-CG-S (2 x 18 W) | 2 x 6 | — | x | 2 x M25, plastic | 2 x M25 | 1 | 1 3465 218 912 |
|  | nLLK 08018/18 V-CG-S (2 x 18 W) | 2/6-2M ¹⁾ | — | x | 4 x M20, metal thread | 2 x M20 | | 1 3465 218 922 |
|  | nLLK 08036/36 V-CG-S (2 x 36 W) | 2/6-2K | — | x | 2 x M25, plastic | 2 x M25 | 1 | 1 3465 236 912 |
|  | nLLK 08036/36 V-CG-S (2 x 36 W) | 2/6-2M ¹⁾ | — | x | 4 x M20, metal thread | 2 x M20 | | 1 3465 236 922 |
|  | nLLK 08058/58 V-CG-S (2 x 58 W) | 2/6-2K | — | x | 2 x M25, plastic | 2 x M25 | 1 | 1 3465 258 912 |
|  | nLLK 08058/58 V-CG-S (2 x 58 W) | 2/6-2M ¹⁾ | — | x | 4 x M20, metal thread | 2 x M20 | | 1 3465 258 922 |
| nLLK 98... CSA ³⁾ | | | | | | | | |
|  | nLLK 98 2217/UNV (2 x 17 W) | 2/5-2M ¹⁾ | — | x | 2 x 3/4" NPT Myers Hub Adapter | 4 x M25 | | 1 3465 217 021 |
|  | nLLK 98 2217/347 (2 x 17 W - 347 V AC) | 2/5-2M ¹⁾ | — | x | 2 x 3/4" NPT Myers Hub Adapter | 4 x M25 | | 1 3465 217 347 |
|  | nLLK 98 4232/UNV (2 x 32 W) | 2/5-2M ¹⁾ | — | x | 2 x 3/4" NPT Myers Hub Adapter | 4 x M25 | | 1 3465 232 021 |
|  | nLLK 98 4232/347 (2 x 32 W - 347 V AC) | 2/5-2M ¹⁾ | — | x | 2 x 3/4" NPT Myers Hub Adapter | 4 x M25 | | 1 3465 232 347 |

Scope of delivery without lamp and fixing accessories

Metal cable glands see catalogue part 2: 2.3.12 ff

¹⁾ with metal thread, without cable gland

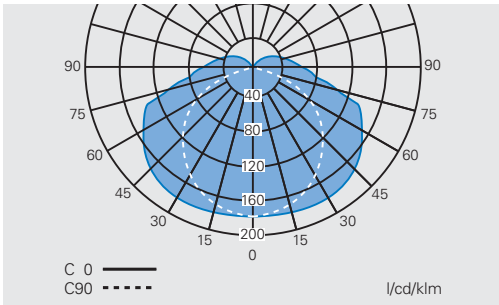
²⁾ for operation with CEAG-emergency supply system

³⁾ for use accord. NEC-standards

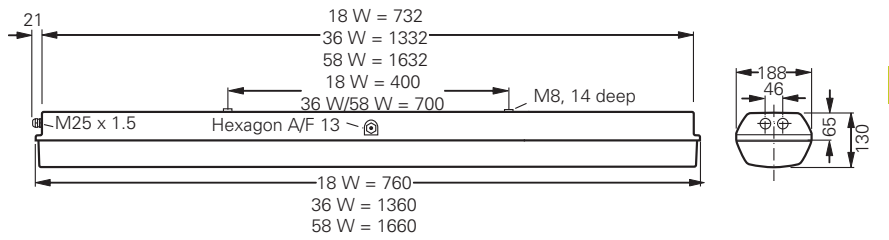
Accessories

| Type | Application | Order No. |
|--|--|-----------------------|
| Single sided through wiring 2/6 with 2 entries M25, incl. terminals and mounting material | for nLLM 08 pole mounting light fitting | 2 2218 602 000 |

**Polar curve nLLK/M 08018/18 /
nLLK/M 08036/36**

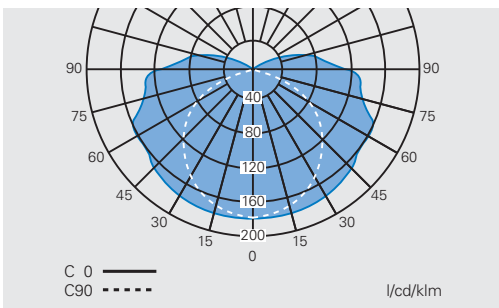


nLLK 08...

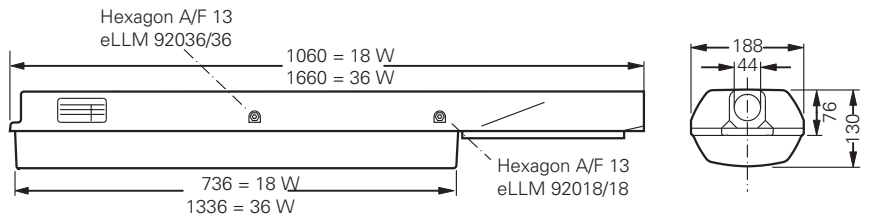


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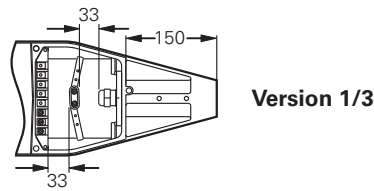
Polar curve nLLK/M 08036 / nLLK 08058



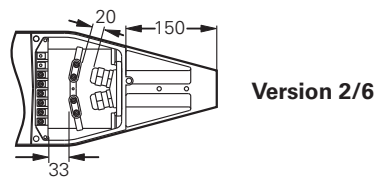
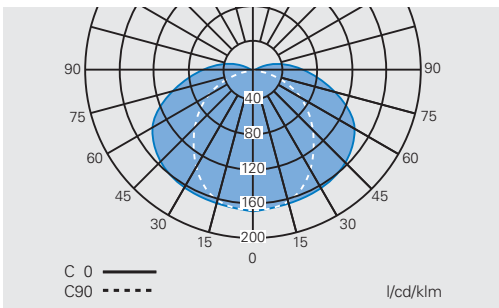
nLLM 08...



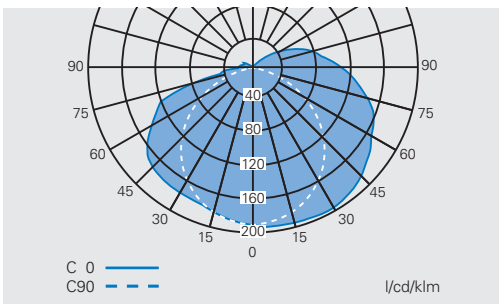
nLLM 08...



Polar curve nLLK 08058/58



**Polar curve nLLK/M 08018/18 V-CG-S/
nLLK/M 08036/36 V-CG-S**





Technical data

| | nLLK 08018/18 (2 x 18 W) | nLLK 08036 (1 x 36 W) / nLLK 08036/36 (2 x 36 W) |
|--|---|---|
| Type Examination Certificate | BVS 09 ATEX E 147 | BVS 09 ATEX E 147 |
| EC-Type Examination Certificate | BVS 09 ATEX E 162 | BVS 09 ATEX E 162 |
| IECEX Certificate of Conformity | IECEX BVS 11.0065 IECEX BVS 12.0069 | IECEX BVS 11.0065 IECEX BVS 12.0069 |
| Marking accd. to 94/9/EC | ⊕ II 3 G Ex nA e IIC T4 Gc ⊕ II 2 D Ex tb IIIC T80 °C Db | ⊕ II 3 G Ex nA e IIC T4 Gc ⊕ II 2 D Ex tb IIIC T80 °C Db |
| Marking accd. to IECEx | Ex nA e IIC T4 Gc Ex tb IIIC T80°C Db | Ex nA e IIC T4 Gc Ex tb IIIC T80°C Db |
| Permissible ambient temperature | -25 °C up to +55 °C | -25 °C up to +55 °C |
| IK-class according to EN 50102 | IK 10 Δ 20 J | IK 10 Δ 20 J |
| Rated voltage | 220 - 240 V AC 220 - 240 V DC | 220 - 240 V AC 220 - 240 V DC |
| Rated current | 0.16 A | 0.16 A / 0.34 A |
| Frequency | 50 - 60 Hz | 50 - 60 Hz |
| Power factor cos ϕ | ≥ 0.95 | ≥ 0.95 |
| Circuit | EVG | EVG |
| Protection class | I | I |
| Lamp / Illuminant | 2 x T26 / 18 W (T8) | 1 x T26 / 36 W (T8) / 2 x T26 / 36 W (T8) |
| Rated luminous flux | 2700 lm ¹⁾ | 3350 lm ¹⁾ / 6700 lm ¹⁾ |
| Lamp cap | G13 accd. to IEC 60061-1 | G13 accd. to IEC 60061-1 |
| Light output ratio | 78 % | 86 % / 78 % |
| Dimensions (L x W x H) | 760 x 188 x 130 mm | 1360 x 188 x 130 mm |
| Connecting terminals | L1, N, PE (optional L1, L2, L3, N, PE) max. 2 x 2.5 mm ² , cage clamp; optional screw terminal max. 2 x 6 mm ² single wire (L1, L2, L3, L, N, PE) | L1, N, PE (optional L1, L2, L3, N, PE) max. 2 x 2.5 mm ² , cage clamp; optional screw terminal max. 2 x 6 mm ² single wire (L1, L2, L3, L, N, PE) |
| Enclosure colour | RAL 7035 light grey | RAL 7035 light grey |
| Enclosure material | glass-fibre reinforced polyester | glass-fibre reinforced polyester |
| Weight | 3.6 kg | 5.6 kg / 5.8 kg |
| Cable glands / gland plates / enclosure drilling | Ex-e cable glands M25 x 1.5 (plastic), option: M20 x 1.5 metal thread ²⁾ | Ex-e cable glands M25 x 1.5 (plastic), option: M20 x 1.5 metal thread ²⁾ |
| Degree of protection accd. to EN 60529 | IP66 | IP66 |
| Protective cover / protective bowl | Polycarbonate | Polycarbonate |

¹⁾ depends on used lamps²⁾ with dustcover if entry/thread is not closed



Technical data

nLLK 08058 (1 x 58 W) / nLLK 08058/58 (2 x 58 W)

| | |
|--|---|
| Type Examination Certificate | BVS 09 ATEX E 147 |
| EC-Type Examination Certificate | BVS 09 ATEX E 162 |
| IECEX Certificate of Conformity | IECEX BVS 11.0065 IECEX BVS 12.0069 |
| Marking accd. to 94/9/EC | ⊕ II 3 G Ex nA e IIC T4 Gc ⊕ II 2 D Ex tb IIIC T80 °C Db |
| Marking accd. to IECEx | Ex nA e IIC T4 Gc Ex tb IIIC T80 °C Db |
| Permissible ambient temperature | -25 °C up to +50 °C / -25 °C up to +45 °C |
| IK-class according to EN 50102 | IK 10 ± 20 J |
| Rated voltage | 220 - 240 V AC 220 - 240 V DC |
| Rated current | 0.27 A / 0.53 A |
| Frequency | 50 - 60 Hz |
| Power factor cos φ | ≥ 0.95 |
| Circuit | EVG |
| Protection class | I |
| Lamp / Illuminant | 1 x T26 / 58 W (T8) / 2 x T26 / 58 W (T8) |
| Rated luminous flux | 5200 lm ¹⁾ / 10400 lm ¹⁾ |
| Lamp cap | G13 accd. to IEC 60061-1 |
| Light output ratio | 83 % / 72 % |
| Dimensions (L x W x H) | 1660 x 188 x 130 mm |
| Connecting terminals | L1, N, PE (optional L1, L2, L3, N, PE) max. 2 x 2.5 mm ² , cage clamp; optional screw terminal max. 2 x 6 mm ² single wire (L1, L2, L3, L, N, PE) |
| Enclosure colour | RAL 7035 light grey |
| Enclosure material | glass-fibre reinforced polyester |
| Weight | 6.7 kg / 6.9 kg |
| Cable glands / gland plates / enclosure drilling | Ex-e cable glands M25 x 1.5 (plastic), option: M20 x 1.5 metal thread ²⁾ |
| Degree of protection accd. to EN 60529 | IP66 |
| Protective cover / protective bowl | Polycarbonate |

¹⁾ depends on used lamps

²⁾ with dustcover if entry/thread is not closed



Technical data

| | nLLK 08018/18 V-CG-S (2 x 18 W) | nLLK 08036/36 V-CG-S (2 x 36 W) / nLLK 08058/58 V-CG-S (2 x 58 W) |
|--|--|---|
| Type Examination Certificate | BVS 09 ATEX E 147 | BVS 09 ATEX E 147 |
| EC-Type Examination Certificate | BVS 09 ATEX E 162 | BVS 09 ATEX E 162 |
| IECEX Certificate of Conformity | IECEX BVS 11.0065 IECEX BVS 12.0069 | IECEX BVS 11.0065 IECEX BVS 12.0069 |
| Marking accd. to 94/9/EC | ⊕ II 3 G Ex nA e IIC T4 Gc ⊕ II 2 D Ex tb IIIC T80 °C Db | ⊕ II 3 G Ex nA e IIC T4 Gc ⊕ II 2 D Ex tb IIIC T80 °C Db |
| Marking accd. to IECEX | Ex nA e IIC T4 Gc Ex tb IIIC T80°C Db | Ex nA e IIC T4 Gc Ex tb IIIC T80°C Db |
| Permissible ambient temperature | -25 °C up to +50 °C | -25 °C up to +50 °C (2 x 36 W)/ -25 °C up to +45 °C (2 x 58 W) -25 °C up to +40 °C (2 x 58 W with through-wiring) |
| IK-class according to EN 50102 | IK 10 Δ 20 J | IK 10 Δ 20 J |
| Rated voltage | 220 - 254 V AC 195 - 250 V DC | 220 - 254 V AC 195 - 250 V DC |
| Rated current | 0.19 A | 0.35 A / 0.54 A |
| Frequency | 50 - 60 Hz | 50 - 60 Hz |
| Power factor cos ϕ | ≥ 0.95 | ≥ 0.95 |
| Circuit | EVG/V-CG-S | EVG/V-CG-S |
| Protection class | I | I |
| Lamp / Illuminant | 2 x T26 / 18 W (T8) | 2 x T26 / 36 W (T8) / 2 x T26 / 58 W (T8) |
| Rated luminous flux | 2700 lm ¹⁾ | 6700 lm ¹⁾ / 10400 lm ¹⁾ |
| Lamp cap | G13 accd. to IEC 60061-1 | G13 accd. to IEC 60061-1 |
| Light output ratio | 78 % | 78 % / 72 % |
| Luminous flux in emergency operation | 1350 lm ¹⁾ | 3350 lm ¹⁾ / 5200 lm ¹⁾ |
| Dimensions (L x W x H) | 760 x 188 x 130 mm | 1360 x 188 x 130 mm / 1660 x 188 x 130 mm |
| Connecting terminals | L1, L2, L3, N, PE screw-type terminals max. 2 x 6 mm ² , single wire | L1, L2, L3, N, PE screw-type terminals max. 2 x 6 mm ² , single wire |
| Enclosure colour | RAL 7035 light grey | RAL 7035 light grey |
| Enclosure material | glass-fibre reinforced polyester | glass-fibre reinforced polyester |
| Weight | 5.6 kg | 7.2 kg / 8.9 kg |
| Cable glands / gland plates / enclosure drilling | Ex-e cable glands M25 x 1.5 (plastic), option: M20 x 1.5 metal thread ²⁾ | Ex-e cable glands M25 x 1.5 (plastic), option: M20 x 1.5 metal thread ²⁾ |
| Degree of protection accd. to EN 60529 | IP66 | IP66 |
| Protective cover / protective bowl | Polycarbonate | Polycarbonate |

¹⁾ depends on used lamps²⁾ with dustcover if entry/thread is not closed



Technical data

| | nLLK 98 2217 (2 x 17 W) | nLLK 98 4232 (2 x 32 W) |
|--|---|---|
| Marking accd. to CEC 018 | Ex nA II T4 Class II Div. 1 Gr. E, F and G | Ex nA II T4 Class II Div. 1 Gr. E, F and G |
| Marking accd. to NEC 500/505 | Class I, Zone 2, AEx nA II T4 Class II, Division 2, Groups F and G | Class I, Zone 2, AEx nA II T4 Class II, Division 2, Groups F and G |
| Certificate of Compliance | CSA 10.2325079 | CSA 10.2325079 |
| Permissible ambient temperature | -25 °C up to +40 °C | -25 °C up to +40 °C |
| Rated voltage | 120 - 277 V AC option: 347 V AC | 120 - 277 V AC option: 347 V AC |
| Rated current | 0.21 A / 0.12 A | 0.34 A / 0.17 A |
| Frequency | 60 Hz | 60 Hz |
| Power factor cos φ | ≥ 0.95 | ≥ 0.95 |
| Circuit | EVG | EVG |
| Protection class | I | I |
| Lamp / Illuminant | 2 x F17 T8 | 2 x F32 T8 |
| Rated luminous flux | 2600 lm ¹⁾ | 6600 lm ¹⁾ |
| Lamp cap | G13 accd. to IEC 60061-1 | G13 accd. to IEC 60061-1 |
| Light output ratio | 78% | 78% |
| Dimensions (L x W x H) | 760 x 188 x 130 mm | 1360 x 188 x 130 mm |
| Connecting terminals | L1, L2, L3, L, N, PE screw-type terminals max. 2 x 6 mm ² single wire | L1, L2, L3, L, N, PE screw-type terminals max. 2 x 6 mm ² single wire |
| Enclosure colour | RAL 7035 light grey | RAL 7035 light grey |
| Enclosure material | glass-fibre reinforced polyester | glass-fibre reinforced polyester |
| Weight | 3.8 kg | 6 kg |
| Cable glands / gland plates / enclosure drilling | 3/4" NPT metal thread with dustcover | 3/4" NPT metal thread with dustcover |
| Degree of protection accd. to EN 60529 | IP65 | IP65 |
| Protective cover / protective bowl | Polycarbonate | Polycarbonate |

¹⁾ depends on used lamps

