



## TECH. DESCRIPTION - INSTALLATION INSTRUCTIONS - DRAWING

**Electrical explosion-proof light fitting Type: 511 14 07n(K), 511 14 07nt(K), 511 14 07nSt(K),  
511 14 07nS(K), 511 14 07nF(K), 511 14 07nFt(K)**

**II 3G Ex nR II T3-T6 Gc  
II 3D Ex tc IIC Tmax. surf. Dc  
IP 66**

### Use:

The luminaire is designed for lighting in industrial areas (other than mines) indoors, under shelter and outdoors with ambient temperature -20 to +40 °C. Versions marked "t" are designed for ambient temperatures up to 50°C. The design of the luminaires meets the requirements of ČSN 33 2000-5-51 for use in environments with water AD5, foreign solids AE6, corrosive or polluting substances AF1, AF2, AF3, mechanical stress AG2 and vibration AH2.

It may be operated in an environment according to the substances processed or stored in accordance with the requirements of the relevant regulations:

**EN 60079-0:2013+A11:2014**

**EN 60079-15:2010**

**EN 60079-31:2014**

### Technical description:

The luminaire consists of a body, flange, protective glass with seal and wiring. The luminaire body and flange are cast in AlSi alloy and are powder coated with RAL1005 polyester paint on the outside. In the luminaire body there is a connection compartment with a connection terminal block, separated from the light-emitting part by a holder made of galvanised sheet steel, carrying an E 27 socket with anti-release locking. The flange with protective glass and moulded rubber gasket is fixed to the luminaire body with three screws. When the luminaire is opened, the sub-assembly remains hanging on the galvanised steel hook.

For the introduction of the connecting cable, the luminaire is equipped with two HSK-K-Ex PG16 plastic cable glands, which allow sealing of cables with a diameter of 7-12 mm.

The luminaire is supplied as a pass-through luminaire, to convert it to an end luminaire it is necessary to order a blanking screw V-Ex PG16 to replace the gland, or the gland can be sealed with a blanking plug HSK-V-Ex PG16.

### Montáž a instalace

The luminaire is suspended by a 20 mm diameter hanging eye. The luminaire can be fixed to the ceiling or wall by means of a hanger No.4-99.7995, which must be ordered separately.

In the connection compartment there is a terminal block for connecting a five-core cable with a conductor cross-section up to 2.5mm<sup>2</sup>.

There is an external protective clamp near the cable gland. The design of the luminaire allows for considerable variability in the use of light sources according to the requirements for lighting intensity and maximum surface temperature of the luminaire. The luminaire is equipped with a label with the necessary data. The luminaire can be fitted without modification with conventional incandescent lamps, compact fluorescent lamp with built-in electronic ballast and E 27 base, 160W mixed discharge lamp and 80W RVLX or 125W RVLX discharge lamp.

When using an 80 W RVLX lamp in the luminaire, the luminaire must be connected to a ballast box type 604.6ntB, when using a 125 W RVLX lamp to a ballast box type 604.6ntA. These cabinets can also be used in the above environments.

To direct the luminous flux, the luminaire can be equipped with a shade No. 254.5021, which is available on special order.

### Warning :

***Spare parts and light sources other than those specified in the instructions cannot be used in the luminaires !***

***A compact fluorescent lamp with electronic ballast and base E 27 can be used in the luminaire.***

***For fixing the luminaire all elements as described in the picture must be used !***

***All screws of the luminaire must be properly tightened, seals must be intact !***

***If the seals and rubber grommets are damaged, they must be replaced !***

***The manufacturer accepts no liability for consequences caused by any arbitrary intervention in the luminaire.***

**The product complies with the standards EN 60079-0:2013+A11:2014, EN 60079-15:2010, EN 60079-31:2014 and the directive ATEX 94/9/EC.**

**Maintenance:**

The light source is replaced by removing the flange by unscrewing the three screws. The light-acting parts are cleaned in the usual way.

*The surface of the luminaire must be cleaned regularly so that a layer of dust does not settle!*

**Spare parts:** (to order)

Protective glass č.v. 4-99.9277  
 Seals č.v. 451.5046  
 Clamp type 62010, Vossloh-Schwabe  
 Terminal blocks 5-99.7568

**Accessories:** (to order)

Holder č.v. 4-99.7995  
 Lampshade č.v. 254.5021  
 Protective basket č.v. 2-99.6195

Cable gland Hummel type HSK-K-Ex PG16, 1.291.1601.15, **DTM 02 ATEX E 047 X**

Blinding plug Hummel type HSK-V-Ex PG16, 1.296.1601.11, **BVS 03 ATEX E 298**

Blinding screw Hummel type V-Ex PG16, 1.297.1601.11, **DTM 03 ATEX E 049**

**Packing, transport, storage:**

During delivery, the product must be protected from external influences, impact and moisture penetration.

The product must be stored indoors with a maximum relative humidity of 75% and a temperature of 5 oC - 30 oC.

**Delivery documentation:**

Technical description – Installation instructions - Drawing

Certificate of quality and completeness – Certificate of warranty

EU Declaration of Conformity

Technical data:	511 14 07n(K)	511 14 07nt(K)	511 14 07nSt(K)	511 14 07nS(K)	511 14 07nF(K)	511 14 07 nFt(K)
<b>Marking:</b>	<b>II 3G Ex nR II T3-T6 Gc II 3D Ex tc IIIC Tmax. surf. Dc IP 66</b>					
<b>Light source + temperature class, surface. temperature:</b>	bulb 200W T4 104°C halogen bulb Philips EC 140W T4 108°C Mixed lamp 160W T4 99°C High pressure mercury vapour lamp HQL 80(125)W T5 95°C(T4 121°C)  compact fluorescent lamp 23W T6 59°C	bulb 200W T4 114°C halogen bulb Philips EC 140W T4 118°C Mixed lamp 160W T4 109°C High pressure mercury vapour lamp HQL 80(125)W T4 105°C(T3 131°C)  compact fluorescent lamp 23W T6 69°C	Bulb for DC 100 W T4 100°C  Compact fluorescent lamp 18 W  T6 69°C	Bulb NARVA AGM 60W T5 90°C	Bulb 200W T4 104°C halogen bulb Philips EC 140W T4 108°C Mixed lamp 160W T4 99°C High pressure mercury vapour lamp HQL 80(125)W T5 95°C(T4 121°C)	bulb 200W T4 114°C halogen bulb Philips EC 140W T4 118°C Mixed lamp 160W T4 109°C High pressure mercury vapour lamp HQL 80(125)W T4 105°C(T3 131°C)
<b>Voltage:</b>	230 V/50Hz	230 V/50Hz	24-230 V DC 230 V DC (Kompakt.)	110 V DC	230 V/50Hz	230 V/50Hz
<b>Protection class:</b>	I					
<b>Ingress protection:</b>	IP 65					
<b>Weight:</b>	5,0 kg					

Lower wattage bulbs can also be used in the luminaire (60-150W).

In the luminaire **511 14 07nSt** it is possible to use bulbs 24-230V according to the selected power supply network up to max. power 100W.

For luminaires with a high-pressure mercury vapour lamp, a ballast box must be used.

Dimensional drawing:

