



Elektrosvit

Svatobořice, a. s.

TECHNICAL DESCRIPTION - ASSEMBLY INSTRUCTIONS - DIMENSIONAL SKETCH

Industrial luminaire

SKP: 31.50.34

Type: 591 36 01 PRO (K, pz, DA)

591 36 02 PRO (K, pz, DA)

592 36 03 PRO (K, pz, DA)

593 36 04 PRO (K, pz, DA)

Use of the luminaire

The luminaires are designed for indoor, under shelter and outdoor industrial lighting with ambient temperature -40°C to +50°C. Their design meets the requirements of ČSN 33 2000-5-51 ed. 3 for use in environments with water AD4, with the presence of foreign solids AE5, with the presence of corrosive or polluting substances AF1, AF2, AF3, with mechanical stress AG2 and with vibration AH2.

Description of the luminaire

The cover of the luminaire and ballast is moulded from steel sheet and powder coated with polyester paint. In the type with the end marking "pz", the luminaire body is galvanized for more demanding applications. For the type with the end marking "DA" the luminaire can be controlled by DALI protocol (DALI-2). The connecting pipe is steel, coated identically. The junction box is aluminium, uncoated. The protective glass is inorganic with a pattern. The glass is fitted with a rubber seal. It is attached to the luminaire body by means of a polypropylene protective basket and galvanised steel lever caps (stainless steel on request). The luminaires can be fitted with a steel basket, variant "K", on request for better mechanical resistance. The luminaire is equipped with a reflector made of aluminium pickled sheet. An LED module with LEDs and cooling unit is fixed on the reflector. The LED module is powered by an LED current control device with an output current of up to 725 mA. The LED current control device has a switch for switching the output current. By default it is set to 700 mA (total luminaire input power 30 W), possibility to reduce the luminaire input power by switching the switches on the control device (see Fig. Output current switching). For the connection to the mains, the luminaire is equipped with a terminal block, mounted depending on the type of luminaire either in the connection box or on a bracket in the luminaire body. For the cable inlet and outlet, the connection box or the luminaire body is equipped with cable glands. The luminaire is manufactured as a walk-through luminaire. To close the unused outlet in the case of an end luminaire, the luminaire outlet must be fitted with a blanking plug.

Assembly and installation

Suspended versions of the luminaire are hung on a hook by a hole Ø20 (17) mm. Wall-mounted versions are fixed to the wall with 2 screws by Ø10.5 holes.

The luminaires allow the connection and passage of a five-core cable with an outer diameter of 9-12 mm. The terminal block has three phase bridges and a zero bridge. Each bridge has three terminals, for connecting a conductor with a cross section of 2.5 mm² in some types up to 4 mm². In addition, the luminaire is equipped with two earthing terminals. The cable glands of the P 16 connection box are fitted with a P 16/12 sealing ring. For types without a connection box, M20x1.5 glands with a sealing ring are used.

Warning : *Spare parts and light sources other than those specified in the instructions cannot be used in the luminaires !
All elements as described in the picture must be used for fixing the luminaire!
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 interference with the luminaire!*

Maintenance of the luminaire

The luminaire does not require special maintenance. The plastic parts and the glass cover are cleaned in the normal way with a dry cloth, if more dirty, they are washed with lukewarm water and wiped dry.



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Spare parts: (on request)

Ochranné sklo	232.5060	LED modul	LED modul FARMER
Těsnění	451.1006		
Koš	182.5005		
Páčka	4-99.8470/1		

Packaging, delivery, storage:

Cardboard.

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%.

Supporting documentation on delivery:

Technical description - assembly instructions - dimensional sketch

Technical data

Type of luminaire:	591 36 01 (K) PRO	591 36 02 (K) PRO	592 36 03 (K) PRO	593 36 04 (K) PRO
Light source:	LED DPS FARMER			
LED type:	LUXEON 3030 HE Plus			
LED driver	TRIDONIC LCO 40W 200–1050mA 64V one4all NFC C EXC3			
Specific luminous flux:	154 lm/W			
Luminous flux:	4620 lm			
Wattage:	30 W			
Chromaticity Temperature:	4000K			
Colour rendering index:	>80			
Voltage:	198 – 264 V AC / 176 – 280 V DC			
Current:	0,15 A			
Protection Class:	I			
Degree of protection:	IP54	IP 66	IP 54	IP 66
Connecting cable diameter range:	6-12 mm for M20x1,5 10-16 mm for M25x1,5			
Operating temperature:	-40°C až +50°C			
Weight:	4,8 kg			
Packaging:	650 x 280 x 280	650 x 280 x 280	1000 x 280 x 280	650 x 320 x 280



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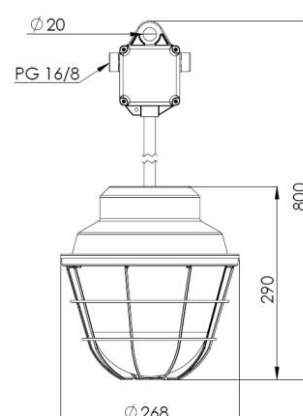
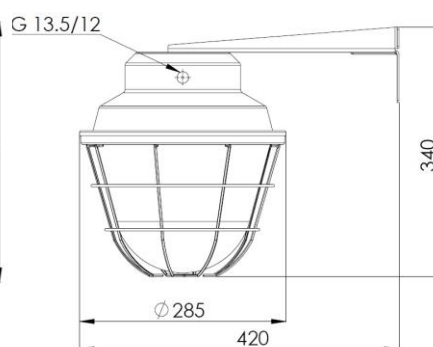
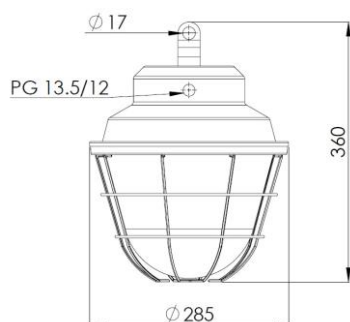
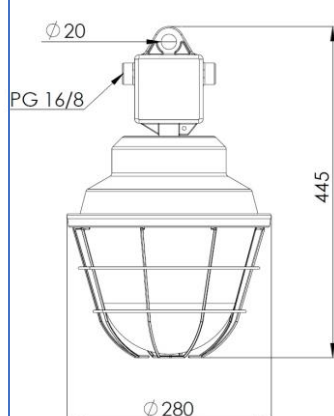
Dimensional sketch

591 36 01

591 36 02

593 36 04

592 36 03



Driver and LED PCB wiring

