



Elektrosvit

Svatobořice, a. s.

TECHNICAL DESCRIPTION - ASSEMBLY INSTRUCTIONS - DIMENSIONAL SKETCH

Industrial luminaire FARMER II LED

Type: 591 37 01 (K, pz)
592 37 03 (K, pz)
593 37 04 (K, pz)

Use of the luminaire

The luminaires are designed for indoor, under shelter and outdoor industrial lighting with ambient temperature -35°C to +50°C.

Their design meets the requirements of ČSN 33 2000-5-51 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. The connecting tube is steel, coated identically. The junction box is aluminium, without surface treatment. 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 LUMILEDS LEDs and a cooling unit is mounted on the reflector. The LED module is powered by LED drivers with a constant output current of 625 mA. It is set to 625 mA power by default (total luminaire power 45 W), the luminaire power can be adjusted by switching the dip-switch on the control device (see Fig. Switching the output current). The output current from the LED driver to the LED PCB must not exceed 625 mA! For 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's front cover. The connection box or the luminaire body is equipped with cable glands for the cable inlet and outlet. The luminaire is manufactured as a walk-through luminaire. To close the unused outlet in the case of an end luminaire, one outlet of the luminaire is provided with a blanking washer.

Assembly and installation

Suspended versions of the luminaire are hung on a hook by a 20 (17) mm hole. Wall-mounted versions are fixed to the wall with 2 screws

for holes 10,5.

The luminaires allow the connection and passage of a 5-core cable with an outer diameter of 9-12mm. 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, P 13.5 glands with a P 13.5/12 sealing ring are used.

Warning: *Spare parts and light sources other than those specified in the instructions must not be used in the luminaires!
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 output current from the LED driver to the LED PCB must not exceed 625 mA!
The manufacturer accepts no liability for consequences caused by any arbitrary intervention in 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)

Protective glass	232.5060
Gasket	451.1006
Basket	182.5005
Lever	4-99.8470/1
LED module	LED module FARMER II
LED control device	TCI - PRO FLAT 30 BI

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:	591 37 01 (K)	592 37 03 (K)	593 37 04 (K)
Light source:	LED DPS - LUMILEDS 3030 HE plus		
LED driver	TCI PRO FLAT 30 BI		
Light output:	6075 lm		
Power input:	45W		
Efficiency:	135 lm/W		
Chromaticity Temperature:	4000K		
Colour rendering index:	>80		
Voltage:	198 - 264 V AC / 176 - 280 V DC		
Frequency:	50 / 60 Hz		
Current:	0,217 A		
Operating Temperature:	-35°C -- +50°C		
Connecting cable diameter range:	6,5-10 mm for M20x1,5		
Electrical Class:	I		
Degree of protection (enclosure):	IP 54		
Weight:	8 kg		
Packaging:	650 x 280 x 280 mm / 1 pc	1000 x 280 x 280 mm / 1 pc	590 x 490 x 260 mm / 2 pc



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Dimensional sketch



LED control device current switching



BTCL **PRO FLAT 30 BI**
 MADE IN ITALY
 via Parma 14, 21047 Saronno (VA) Italy, www.btcl.it
 PRI: AC 220-240V 50/60Hz cod.127573
 A (Pout27W)- 0,95 I_{max}=0,16A
 SEC: 350-725mA, V_{out}44V_{max}; 32W_{max}, U_{out}=59V
 170-280V_{ac} range x emer. appl.; I_{max}=0,21A

Pout	Iout	V _{out}	1	2	3	4
15 W	350 mA	10 V	-	-	-	-
16 W	375 mA	10 V	-	-	ON	-
17 W	400 mA	10 V	-	-	ON	ON
18 W	425 mA	10 V	-	-	ON	ON
19 W	450 mA	10 V	-	ON	-	-
21 W	475 mA	10 V	-	ON	ON	-
22 W	500 mA	8 V	-	ON	ON	ON
23 W	525 mA	8 V	-	ON	ON	ON
24 W	550 mA	5 V	ON	-	-	-
25 W	575 mA	5 V	ON	-	ON	-
26 W	600 mA	5 V	ON	-	ON	ON
27 W	625 mA	5 V	ON	ON	-	-
28 W	650 mA	5 V	ON	ON	ON	-
29 W	675 mA	5 V	ON	ON	ON	ON
30 W	700 mA	5 V	ON	ON	ON	ON
32 W	725 mA	5 V	ON	ON	ON	ON

ip=25, 50°C, I_{sc}65°C, T_{amb}19
 PRI/SEC 02-15 or 8,5-9,5mm
 Before use, always check 50Hz dip switch settings:

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