

## Installation Instructions

# Infrared-LED-spotlights 30/60 W and 15 W

## 1. Safety instructions

The following instructions are for your own safety and should be observed without fail:

- Read these safety and installation instructions carefully before using the IR-LED-spotlight.
- Keep the installation in a safe place for later use.
- IR-LED-spotlight 30/60 W are only designed for permanent connection to the power supply unit NE-120.
- End sleeves are to be used if shortening the supplied flexible connection lead.
- Pay attention to safety requirements when laying the power cable and lay it so that it is not subject to heavyloads, kinks or damage and no moisture can get in.
- Additional varnishing of the unit surface may damage its function. When the unit is additionally varnished, the warranty claim expires.
- **A safety distance of > 1 m is to be observed in darkened environments when facing directly into the spotlight.**



## 2. Types and Specifications

Type	WFL-II/LED-15W	MFL-I/LED-30WN	WFL-I/LED-30WN	WFL-II/LED-30WN
EDP-No.	73826	73805	73806	73808
Wattage at nominal voltage	15 W	30 W		
Current consumption	1.25 A	2.3 A		
Operating voltage ( $\pm 0,5$ V)	12 VDC	Se		
Infrared wave-length max. emission	950 nm	880 nm	880 nm	950 nm
Approx. range * (nominal range)	10-15 m	35 m	28 m	25 m
Reduced light emission to 75% after:	> 100.			
Heating above ambient air temperature	max. 35°C	max. 21°C		
Protection grade				IP
Weight **	350 g			
Dimensions L x W x H	66 x 66 x 55 mm			
Connector thread	1/4"			

\* On condition that a camera is used with max. sensitivity in the infra-red range, a rel. lens aperture: min. 1.4 and a mean reflectance factor for spotlight objects.

\*\* Without power supply unit

## 3. Power supply units

Type	EDP-No.	Input voltage range	Output voltage under load and connected sense line	For IR-LED spotlights	Integrated Twilight switch
NE-120	73865	100-240 VAC $\pm 10\%$	13.5 VDC; ambient temp. +20°C	30/60 W	Yes
NE-109N	73827	100-240 VAC $\pm 10\%$	12 VDC $\pm 0.5$ VDC	15 W	No

ED-30WN	WFL-I/LED-30WN	WFL-II/LED-30WN	MFL-I/LED-60W	WFL-I/LED-60W	WFL-II/LED-60W
	73806	73808	73815	73816	73818
	30 W		60 W		
	2.3 A		4.6 A		
See power supply unit NE-120					
	880 nm	950 nm	880 nm	880 nm	950 nm
	28 m	25 m	55 m	42 m	35 m
	> 100.000 h				
	max. 21°C		max. 35°C		
	IP 66				
	1.3 kg				
	182 x 130 x 66.5 mm				
	1/4" and 2 x M6				

## 4. Installation and switching-on

### 4.1. IR-LED-spotlight 30/60 W

Attach the enclosed mounting brackets to the NE-120 power supply unit using two self-tapping screws for each. Place the power supply unit with brackets above the ventilation openings on the spotlight and fasten in place using one self-tapping screw per bracket.

If necessary, shorten the spotlights connection cable to required length and connect.

red	= (+)	live VDC
black	= (-)	0 V
S*	=	Sense line

The location of the mains and l. v. terminals is shown on the diagram in the cover.

\* The sense line (sensor connection "S") ensures that the connected spotlight is always with the ideal operating voltage in accordance with its specifications, irrespective of the type of spotlight being used or changing environmental and

operating temperatures. Further details can be found in the installation instructions for the NE-120 power supply unit.

## Note

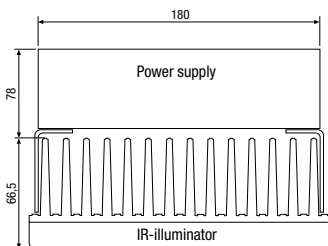
### Overvoltage shut-off

The IR-spotlights are fitted with an overvoltage protector which switches the spotlight off in the case of > 15 VDC. The unit switches back on once the voltage level has fallen below this limit. Voltages > 30 VDC result in immediate destruction of the IR-spotlight.

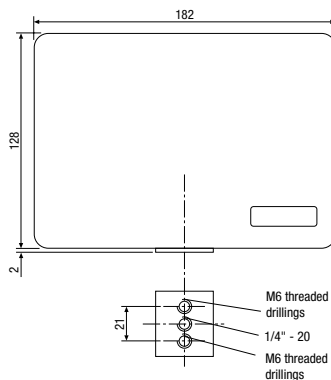
### Temperature-related shut-off

The IR-spotlight shuts off in cases of temperatures > 70°C. The unit switches back on immediately when the temperature has fallen below this limit.

### Dimension diagram 30/60 W illuminator:



Dimensions: mm



## Twilight switch

It is recommended that mains units be operated with a twilight switch\*. Daylight-related on/off switching prevents the IR-spotlight from possibly overheating e.g. through intensive sunlight.

\* As a standard feature in the NE-120 included.

## Accessories for 30 and 60 W Infrared-LED-spotlights

Type	Description	EDP-No.
VPT/IRB-4L	Mounting bracket for 1 x IR-LED-spotlights (P/T head series VPT-40/41/42)	77488
VPT/IRB-4T	Mounting bracket for 2 x IR-LED-spotlights (P/T head series VPT-40/41/42)	77489
DS-3	Twilight switch with ON/OFF delay	73433

### 4.2. IR-LED-spotlight 15 W

If necessary, shorten the spotlights connection cable to required length and connect.

black-white = (+) live VDC  
black = (-) 0 V

Open the 2-pole jack plug (3.5 mm) and solder the black-white cable (+) to the shorter solder terminal and the black cable (-) to the longer solder terminal. Screw jack plug together and plug into the power supply unit NE-109N.

## Important

The spotlight can also be operated using suitable power supply units from other manufacturers, however they must have a stabilized output voltage of 12 VDC ( $\pm 0.5$  VDC).

## Accessories for 15 W Infrared-LED-spotlights

Type	Description	EDP-No.
VPT/IRB-4L	Mounting bracket for 1 x IR-LED-spotlights (P/T head series VPT-40/41/42)	77488
DS-3	Twilight switch with ON/OFF delay	73433



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