

PROVIDE A BETTER LIFE

Catalogue
Ballast for UV lamp
UV sensor and monitor

Overview

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Operation Instructions for Electronic Ballasts

■ Important safety notice:

Risk of electric shock! Lethal high voltage occurs inside the ballast and at the ballast terminals.

Please refer to the safety rules below. Additional safety rules and legal restrictions may apply depending on the country of operation.

1. The ballast shall be operated only with UV lamps specified in the data sheet.
2. The ballast does not provide galvanic insulation from mains at the lamp terminals. In particular this applies for microprocessor controlled ballasts, where harmful voltage occurs at the lamp terminals even if the lamp is switched off.
3. If there is any damage (e.g. mechanical damage after transport) the device must not be operated.
4. Without prior written permission of manufacturer the ballasts may not be used for equipment that is used for medical treatment or for life saving measures.
5. The ballast shall only be installed by qualified personnel. All appropriate safety rules must be fulfilled.
6. The ballast is only intended for use in dry and chemically and biologically inactive environment.
7. The ballast may only be wired according to the wiring diagram that is shown at the case. Lethal voltages at the complete system can result from contact between lamp and water. A separate protective grounding of the complete system is mandatory.
8. Make sure that the line voltage is within the tolerances given in the data sheet (either 110V AC $\pm$ 10%, 220V AC $\pm$ 10%, 230V AC $\pm$ 10%, 240V AC $\pm$ 10%, 277V AC $\pm$ 10% according to the data sheet). Otherwise the ballast may be damaged.
9. Solid wires and flexible braid wires may be used for wiring. Only use wire gauges specified in the data sheet. The terminals are intended to clamp braid wires without wire termination. Wires may not be soldered (tinned). Check wiring for safe connection.
10. Overvoltage at line terminals will damage the ballast, even if the overvoltage occurs just for short time.
11. Short circuits, wrong wiring or loose contacts may damage the ballast.
12. Never cut connections to the lamp while the ballast in operation. Danger of life!
13. After connecting to mains inrush current may reach high values up to 100A in the first 2ms and up to 15A in the first 15ms. Subsequently the current decreases quickly to the specified value. The inrush current depends on the value of the sinusoid line voltage at the moment of connection. It is recommended to connect/turn on groups of ballasts separately. We recommend

slow-blow lead fuses for protection.

14. Do not mount the ballasts in an environment with high mechanical stress such as vibrating assemblies.
15. Make sure all wires, connectors and terminals provide sufficient insulation to each other with respect to earth ground. Under all circumstances keep water away from the whole electrical assembly. Watch out for water leaks.
16. The temperature at the t_c point, marked at the ballast must never exceed the value specified in the datasheet.
17. If ballasts are operated in parallel, EMI emissions and harmonic distortions may add up and exceed the limits, given in standards. In that case appropriate filters should be used. CE compliance is guaranteed only for operation of single ballasts.
18. Damaged lamps or lamps close to the end of lifetime may overload the ballast, possibly resulting in damage. Replacing lamps within the service interval, given by the lamp manufacturer is mandatory.
19. The load for the fault detecting contacts has to be kept within the limits specified in the datasheet.
20. **Danger!** During ballast start up and in case of lamp defects or due to wrong lamp wiring, high voltages up to 1200V_{eff} may occur at the output terminals of the ballast. The duration of this high voltage may last for a couple of milliseconds until the internal protection circuits shuts down the ballast. After turning off and on line voltage ballast tries to ignite the lamp again, so, again, high voltages may occur.
21. Do not add any components like switches, capacitors or ignition devices to the wires in between the ballast and the lamp because this may destroy the ballast.
22. Preheat ballasts (RH/RS Series) are heating up the lamp filaments before igniting the lamp. Lamp ignition will happen after the specified preheat time.

■ Why Electronic Ballasts?

Electronic ballasts became the standard in the lighting industry. They allow significant energy and money savings in nearly all applications. The lamp operation is flicker free and the ballast produces virtually no noise or hum.

The incoming 50/60 Hz power (110 or 230 volts) is converted to high-frequency AC (usually 20 to 60 kHz). This leads to a constant gas discharge compared to conventional ballasts and prevents cathode flicker.

Electronic ballasts are more efficient than magnetic ballasts in converting input power to the proper lamp power. The operation of UV-lamps at higher frequencies reduces end losses, resulting in an overall lamp-ballast system efficiency increase of 15% to 20%. Electronic ballasts are directly interchangeable with magnetic ballasts. They operate with most UV-lamps available.

Special electronic ballasts can operate two or four lamps reducing

the total number of ballasts in a system. This also reduces installation and field wiring costs. Other advantages are reduced weight, quieter operation and reduced lamp flicker.

■ **Rapid , Instant or Preheat?**

Modes of lamp operation and connection:

Rapid start - EPW

Instant start - EPL

Preheat start - EPS

Rapid Start Ballasts(EPW)

These ballasts are used for lamps with four-pin connection.

Rapid start ballasts ignite lamps by applying high voltage across the lamp. The high voltage typically ignites the lamp immediately.

These ballasts do not heat the electrodes.

Rapid start ballasts are recommended when the switching cycle for the lamps is less than one per day. During operation current is flowing through the lamps filament.

The electrodes must be confirmed to run with rapid start ballasts by the lamp manufacturer.

Instant Start Ballasts (EPL)

These ballasts are used for lamps with two-pin connection (=only one contact at each electrode).

Instant start ballasts ignite lamps by applying high voltage across the lamp. The high voltage typically ignites the lamp immediately.

These ballasts do not heat the electrodes.

Instant start ballasts are recommended when the switching cycle for the lamps is less than one per day. The advantage is the lower wiring effort compared to four-pin connection.

The electrodes must be confirmed to run with instant start ballasts by the lamp manufacturer.

Preheat Start Ballasts (EPS)

These ballasts are used for lamps with four-pin connection.

Preheat ballasts provide a preheat current through the filaments that allows the electrodes to heat up before ignition. In order to prevent conditions that reduce the lifetime of the lamp, such as glow-mode operation, haisen ballasts keep the lamp voltage close to zero during filament pre-heating.

At the end of programmed time for preheating, the ballast applies a high voltage pulse across the lamp to ignite it with minimal loss of emissive material. This optimizes the lifetime of the lamp.

These ballasts are recommended for applications with many switch-on cycles.

■ **Warranty**

EPL/EPS Series 2 years

EPW Series 1 years

■ **General Notes**

All dimensions and technical data may vary within small tolerances as usual in practice.

We reserve the right to make changes to technical and delivery

details.

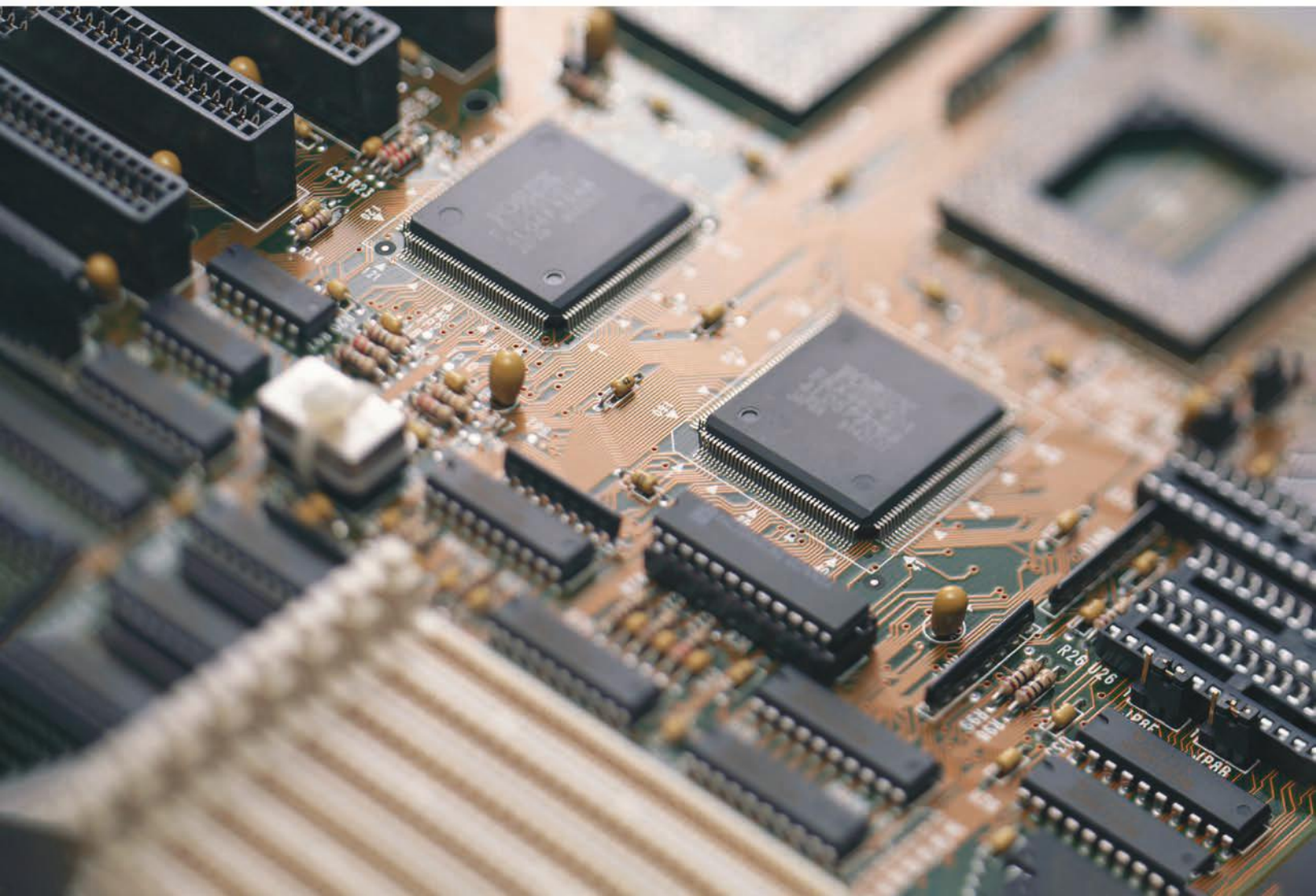
The instructions above are based on our experience and are for information only.

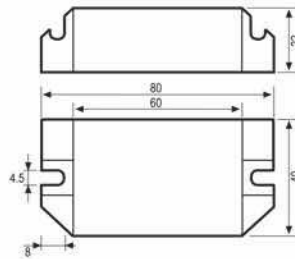
No warranty for completeness and correctness of details.

More information, please send the email to jack.teng@haisenuv.com

01~16 Ballasts for Standard UV lamps
(425mA)

Providing a Comprehensive Solution





Part Number: 810018001

EPS18W/425mA

Technical Data

Lamp power: 10~18W
 Lamp type: GPH212~357T5L, TUV16W
 Lamp current: 0.38~0.43A

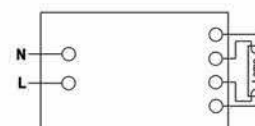
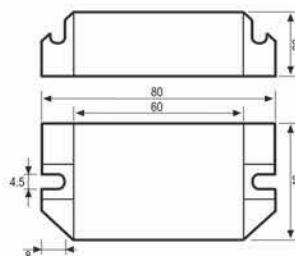
Mains voltage: 198~264VAC 50/60Hz
 Efficiency: >80%
 Operating frequency: 25~60KHz
 Power factor: >0.5 typ.
 Ambient temperature: 0~40°C
 Tc-temperature: Max. 70°C
 Dimensions: 80X40X22mm
 Weight: 0.08Kg

Features

- > electronic ballast for one-lamp operation
- > to be used with four-wire lamps
- > preheat start

Mounting Restrictions

Disconnect input power before installing or servicing
 Don't short any two wires of the input and output wires
 For indoor use only
 Max.Cable length between the ballast and lamp: 1.5m



Part Number: 810018002

EPS18W/425mA/120V

Technical Data

Lamp power:	10~18W
Lamp type:	GPH212~357T5L, TUV16W
Lamp current:	0.38~0.43A

Mains voltage:	99~132VAC 50/60Hz
Efficiency:	>80%
Operating frequency:	25~60KHz
Power factor:	>0.5 typ.
Ambient temperature:	0~40°C
Tc-temperature:	Max. 70°C
Dimensions:	80X40X22mm
Weight:	0.08Kg

Features

- > electronic ballast for one-lamp operation
- > to be used with four-wire lamps
- > preheat start

Mounting Restrictions

Disconnect input power before installing or servicing
Don't short any two wires of the input and output wires
For indoor use only
Max. Cable length between the ballast and lamp: 1.5m

Part Number: 810018003

EPL18W/425mA/D12

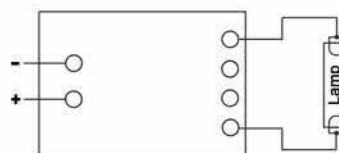
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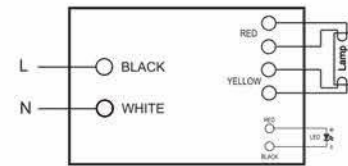
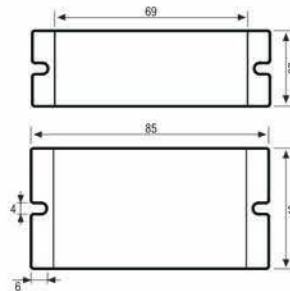
Lamp power:	10~18W
Lamp type:	GPH212~357T5L, TUV16W
Lamp current:	0.38~0.43A

Mains voltage:	12VDC
Efficiency:	>80%
Operating frequency:	25~60KHz
Power factor:	1.0 typ.
Ambient temperature:	0~40°C
Tc-temperature:	Max. 70°C
Dimensions:	80X40X22mm
Weight:	0.08Kg

Features

- > electronic ballast for one-lamp operation
- > to be used with two-wire or four-wire lamps
- > Instant start





Part Number: 810021001

EPW21W/425mA

Technical Data

Lamp power:	10~21W
Lamp type:	GPH212~357T5L, TUV16W
Lamp current:	0.38~0.43A

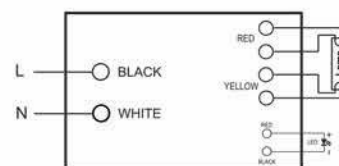
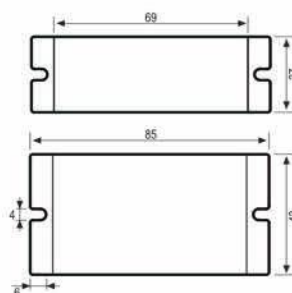
Mains voltage:	198~264VAC 50/60Hz
Efficiency:	>80%
Operating frequency:	25~60KHz
Power factor:	>0.5 typ.
Ambient temperature:	0~40°C
Tc-temperature:	Max. 70°C
Dimensions:	85X43X27mm
Input wire length:	330mm
Output wire length:	330mm
Signal wire length:	330mm
Weight:	0.12Kg

Features

- > electronic ballast for one-lamp operation
- > to be used with four-wire lamps
- > Rapid start
- > status indication via 5V DC signal output indicators
 - DC 5V: lamp on
 - DC 0V: lamp fault
- *connected LED
- > for applications with less than three switch-on cycle per day (otherwise preheat start ballasts are recommended)

Mounting Restrictions

- Disconnect input power before installing or servicing
- Ballast case must be grounded
- Don't short any two wires of the input and output wires
- For indoor use only
- Max. Cable length between the ballast and lamp: 1.5m



Part Number: 810021002

EPW21W/425mA/120V

Technical Data

Lamp power: 10~21W
 Lamp type: GPH212~357T5L, TUV16W
 Lamp current: 0.38~0.43A

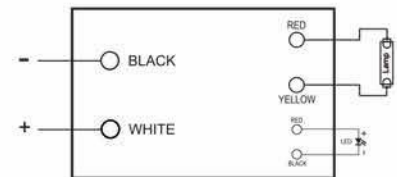
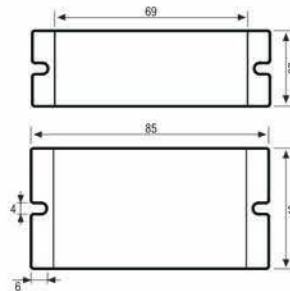
Mains voltage: 99~132VAC 50/60Hz
 Efficiency: >80%
 Operating frequency: 25~60KHz
 Power factor: >0.5 typ.
 Ambient temperature: 0~40°C
 Tc-temperature: Max. 70°C
 Dimensions: 85X43X27mm
 Input wire length: 330mm
 Output wire length: 330mm
 Signal wire length: 330mm
 Weight: 0.12Kg

Features

- > electronic ballast for one-lamp operation
- > to be used with four-wire lamps
- > Rapid start
- > status indication via 5V DC signal output indicators
 - DC 5V: lamp on
 - DC 0V: lamp fault
- *connected LED
- > for applications with less than three switch-on cycle per day (otherwise preheat start ballasts are recommended)

Mounting Restrictions

Disconnect input power before installing or servicing
 Ballast case must be grounded
 Don't short any two wires of the input and output wires
 For indoor use only
 Max. Cable length between the ballast and lamp: 1.5m



Part Number: 810021003

EPL21W/425mA/12V

Technical Data

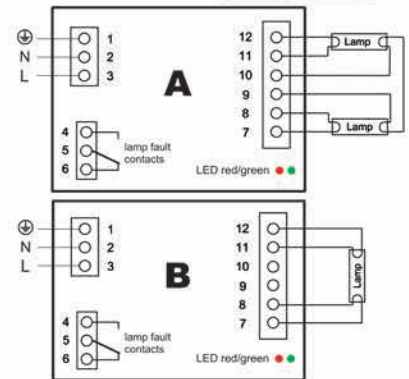
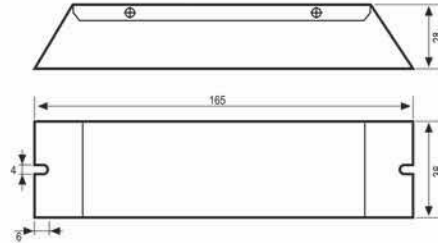
Lamp power:	10~21W
Lamp type:	GPH212~357T5L, TUV16W
Lamp current:	0.38~0.43A
Mains voltage:	11~13.2VDC
Efficiency.:	>80%
Operating frequency:	25~60KHz
Power factor:	1.0
Ambient temperature:	0~40°C
Tc-temperature:	Max. 70°C
Dimensions:	85X43X27mm
Input wire length:	330mm
Output wire length:	330mm
Signal wire length:	330mm
Weight:	0.12Kg

Features

- > electronic ballast for one-lamp operation
- > to be used with two-wire lamps
- > Instant start
- > status indication via 5V DC signal output indicators
 - DC 5V: lamp on
 - DC 0V: lamp fault
- *connected LED
- > for applications with less than three switch-on cycle per day (otherwise preheat start ballasts are recommended)

Mounting Restrictions

- Disconnect input power before installing or servicing
- Ballast case must be grounded
- Don't short any two wires of the input and output wires
- For indoor use only
- Max. Cable length between the ballast and lamp: 1.5m



Part Number: 820021001

EPS2X21W/425mA

Technical Data

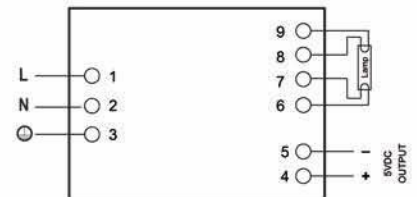
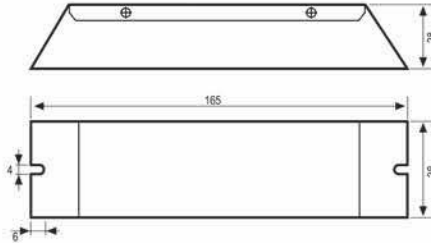
Lamp power:	10~40W
Wiring diagram A	
Lamp type:	GPH150~357T5L TUV16W, TUV20W
Wiring diagram B	
Lamp type:	GPH436~843T5L TUV36W
Lamp current:	0.38~0.43A
Mains voltage:	110~240VAC 50/60Hz
Efficiency:	>90%
Operating frequency:	25~60KHz
Power factor:	>0.9 typ.
Ambient temperature:	0~40°C
Tc-temperature:	Max. 70°C
Dimensions:	165X38X28mm
Weight:	0.15Kg

Features

- > electronic ballast for two-lamps operation
- > to be used with four-wire lamps
- > Preheat start
- > status forwarding
 - potential free relay contacts for lamp on / lamp fault
 - relay activated: lamp on
- > relay contacts:
 - potential free, load: 50~500mA at 24~277V AC
 - 50~500mA at 5~30V DC

Mounting Restrictions

Disconnect input power before installing or servicing
 Ballast case must be grounded
 Don't short any two wires of the input and output wires
 For indoor use only
 Max. Cable length between the ballast and lamp: 3.0m



Part Number: 810040001

EPS40W/425mA

Technical Data

Lamp power:	10~40W
Lamp type:	GPH212~893T5L TUV16W, TUV20W, TUV36T5L, TUV36W
Lamp current:	0.38~0.43A

Mains voltage:	198~264VAC 50/60Hz
Efficiency:	>90%
Operating frequency:	25~60KHz
Power factor:	>0.9 typ.
Ambient temperature:	0~40°C
Tc-temperature:	Max. 70°C
Dimensions:	165X38X28mm
Weight:	0.15Kg

Features

- > electronic ballast for one-lamp operation
- > to be used with four-wire lamps
- > Preheat start
- > status indication via 5V DC signal output indicators
 - DC 5V: lamp on
 - DC 0V: lamp fault
- *connected LED

Mounting Restrictions

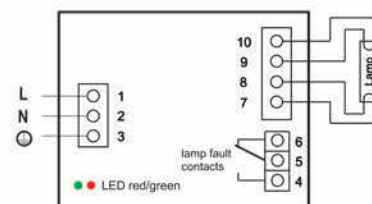
Disconnect input power before installing or servicing
 Ballast case must be grounded
 Don't short any two wires of the input and output wires
 For indoor use only
 Max.Cable length between the ballast and lamp: 3.0m

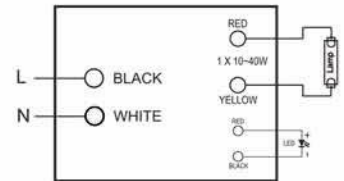
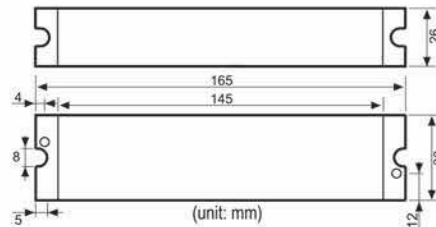
Part Number: 810040003

EPS40W/425mA(N)

Features

- > electronic ballast for one-lamp operation
- > to be used with four-wire lamps
- > Preheat start
- > status forwarding
 - potential free relay contacts for lamp on / lamp fault
 - relay activated: lamp on
- > relay contacts:
 - potential free, load: 50~500mA at 24~277V AC
 - 50~500mA at 5~30V DC





Part Number: 810040002

EPL40W/425mA

Technical Data

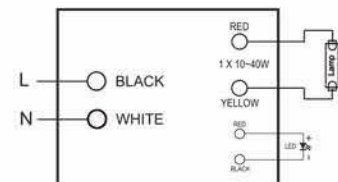
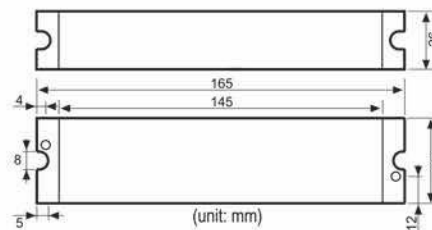
Lamp power:	10~40W
Lamp type:	GPH212~893T5L, G36T5L TUV36T5L, TUV36W
Lamp current:	0.38~0.43A
Mains voltage:	198~264VAC 50/60Hz
Efficiency:	>90%
Operating frequency:	40~60KHz
Power factor:	>0.9 typ.
Ambient temperature:	0~40°C
Tc-temperature:	Max. 70°C
Dimensions:	165X38X26mm
Input wire length:	330mm
output wire length:	480mm
Signal wire length:	480mm
Weight:	0.22Kg

Features

- > electronic ballast for one-lamp operation
- > to be used with two-wire lamps or four-wire lamps
- > instant start
- > status indication via 5V DC signal output indicators
 - DC 5V: lamp on
 - DC 0V: lamp fault
- *connected LED
- > for applications with less than three switch-on cycle per day (otherwise preheat start ballasts are recommended)

Mounting Restrictions

- Disconnect input power before installing or servicing
- Ballast case must be grounded
- Don't short any two wires of the input and output wires
- For indoor use only
- Max.Cable length between the ballast and lamp: 1.5m



Part Number: 810040003

EPL40W/425mA/120V

Technical Data

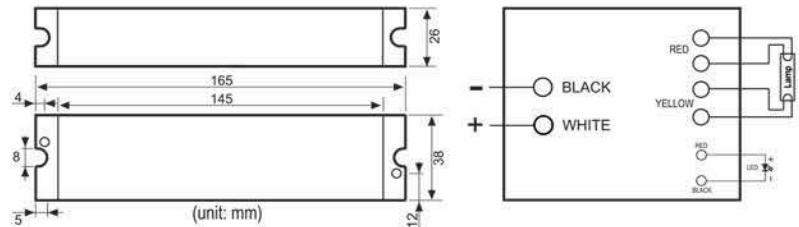
Lamp power:	10~40W
Lamp type:	GPH212~893T5L, G36T5L TUV36T5L, TUV36W
Lamp current:	0.38~0.43A
Mains voltage:	99~132VAC 50/60Hz
Efficiency:	>90%
Operating frequency:	40~60KHz
Power factor:	>0.6 typ.
Ambient temperature:	0~40°C
Tc-temperature:	Max. 70°C
Dimensions:	165X38X26mm
Input wire length:	430mm
output wire length:	480mm
Signal wire length:	480mm
Weight:	0.22Kg

Features

- > electronic ballast for one-lamp operation
- > to be used with two-wire lamps or four-wire lamps
- > instant start
- > status indication via 5V DC signal output indicators
 - DC 5V: lamp on
 - DC 0V: lamp fault
 - *connected LED
- > for applications with less than three switch-on cycle per day (otherwise preheat start ballasts are recommended)

Mounting Restrictions

- Disconnect input power before installing or servicing
- Ballast case must be grounded
- Don't short any two wires of the input and output wires
- For indoor use only
- Max. Cable length between the ballast and lamp: 1.5m


Part Number: 810040004

EPW40W/425mA/12V

Technical Data

Lamp power:	10~40W
Lamp type:	GPH212~893T5L, G36T5L TUV36T5L, TUV36W
Lamp current:	0.38~0.43A
Mains voltage:	10.8~13.4VDC
Efficiency:	>90%
Operating frequency:	40~60KHz
Power factor:	1.0
Ambient temperature:	0~40°C
Tc-temperature:	Max. 70°C
Dimensions:	165X38X26mm
Input wire length:	430mm
output wire length:	480mm
Signal wire length:	480mm
Weight:	0.22Kg

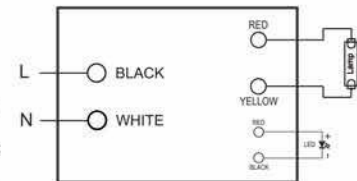
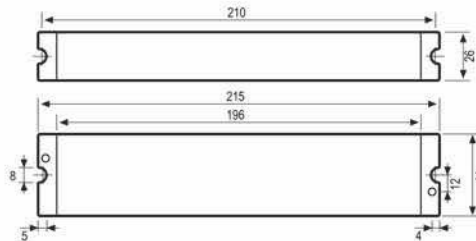
Features

- > electronic ballast for one-lamp operation
- > to be used with four-wire lamps
- > preheat start
- > status indication via 5V DC signal output indicators
 - DC 5V: lamp on
 - DC 0V: lamp fault
- *connected LED

Mounting Restrictions

Disconnect input power before installing or servicing
 Ballast case must be grounded
 Don't short any two wires of the input and output wires
 For indoor use only
 Max.Cable length between the ballast and lamp: 1.5m

24VDC Version Part number: 810040005
EPW40W/425mA/24V



Part Number: 810100001

EPL100W/425mA

Technical Data

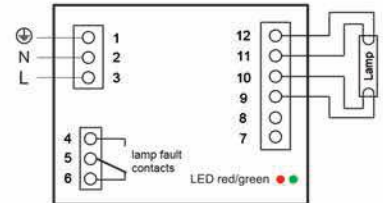
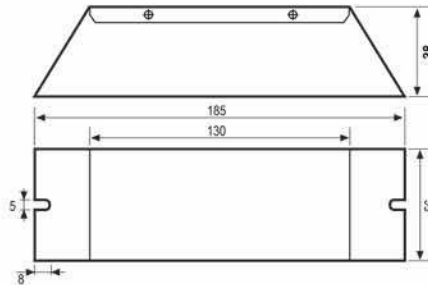
Lamp power:	48~100W
Lamp type:	GPH843~1630T5L, G48T5L G64T5L, G67T5L, TUV64T5L
Lamp current:	0.38~0.43A
Mains voltage:	198~264VAC 50/60Hz
Efficiency:	>90%
Operating frequency:	40~60KHz
Power factor:	>0.6 typ.
Ambient temperature:	0~40°C
Tc-temperature:	Max. 70°C
Dimensions:	215X44X26mm
Input wire length:	430mm
output wire length:	630mm
Signal wire length:	630mm
Weight:	0.36Kg

Features

- > electronic ballast for one-lamp operation
- > to be used with two-wire lamps or four-wire lamps
- > instant start
- > status indication via 5V DC signal output indicators
 - DC 5V: lamp on
 - DC 0V: lamp fault
 - *connected LED
- > for applications with less than three switch-on cycle per day (otherwise preheat start ballasts are recommended)

Mounting Restrictions

- Disconnect input power before installing or servicing
- Ballast case must be grounded
- Don't short any two wires of the input and output wires
- For indoor use only
- Max. Cable length between the ballast and lamp: 1.5m



Part Number: 810100003

EPS100W/425mA/J

Technical Data

Lamp power: 40~100W
 Lamp type: GPH793~1630T5L, TUV64T5L
 Lamp current: 0.38~0.43A

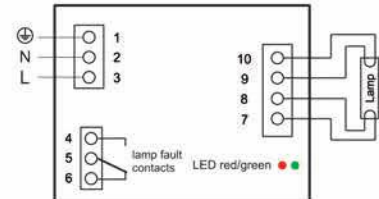
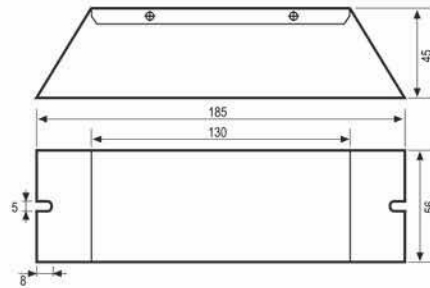
Mains voltage: 99~264VAC 50/60Hz
 Efficiency.: >90%
 Operating frequency: 25~60KHz
 Power factor: >0.9 typ.
 Ambient temperature: 0~40°C
 Tc-temperature: Max. 70°C
 Dimensions: 185X56X45mm
 Weight: 0.28Kg

Features

- > electronic ballast for one-lamp operation
- > to be used with four-wire lamps
- > Preheat start
- > status forwarding
 - potential free relay contacts for lamp on / lamp fault
 - relay activated: lamp on
- > relay contacts:
 - potential free, load: 50~500mA at 24~277V AC
 - 50~500mA at 5~30V DC

Mounting Restrictions

Wire gauge: 0.5-1.5mm², strip length: 8mm
 Disconnect input power before installing or servicing
 Ballast case must be grounded
 Don't short any two wires of the input and output wires
 For indoor use only
 Max. Cable length between the ballast and lamp: 5.0m



Part Number: 810100004

EPS100W/425mA

Technical Data

Lamp power: 40~100W
 Lamp type: GPH793~1630T5L, TUV64T5L
 Lamp current: 0.38~0.43A

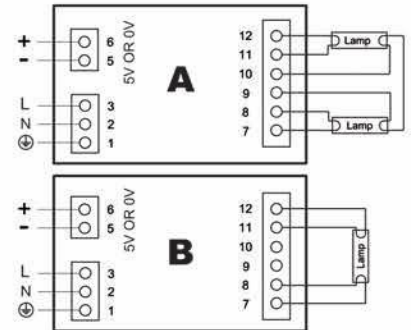
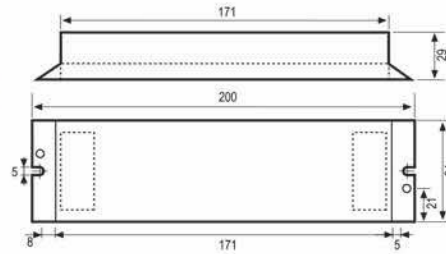
Mains voltage: 99~264VAC 50/60Hz
 Efficiency: >90%
 Operating frequency: 25~60KHz
 Power factor: >0.9 typ.
 Ambient temperature: 0~40°C
 Tc-temperature: Max. 70°C
 Dimensions: 185X56X45mm
 Weight: 0.28Kg
 Inrush Current: <7A RMS; <10A PEAK

Features

- > electronic ballast for one-lamp operation
- > to be used with four-wire lamps
- > Preheat start
- > status forwarding
 - potential free relay contacts for lamp on / lamp fault
 - relay activated: lamp on
- > relay contacts:
 - potential free, load: 50~500mA at 24~277V AC
 - 50~500mA at 5~30V DC

Mounting Restrictions

Wire gauge: 0.5-1.5mm², strip length: 8mm
 Disconnect input power before installing or servicing
 Ballast case must be grounded
 Don't short any two wires of the input and output wires
 For indoor use only
 Max. Cable length between the ballast and lamp: 5.0m



Part Number: 820040001

EPS2X40W/425mA

Technical Data

Lamp power: 10~75W

Wiring diagram A

Lamp type: GPH212~843T5L
TUV16W, TUV20W, TUV36T5L

Wiring diagram B

Lamp type: GPH793~1554T5L
TUV36T5L, TUV64T5L

Lamp current: 0.38~0.43A

Mains voltage: 99~264VAC 50/60Hz

Efficiency: >90%

Operating frequency: 25~60KHz

Power factor: >0.9 typ.

Ambient temperature: 0~40°C

Tc-temperature: Max. 70°C

Dimensions: 200X64X29mm

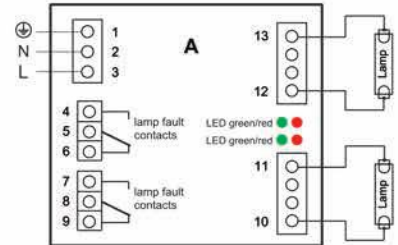
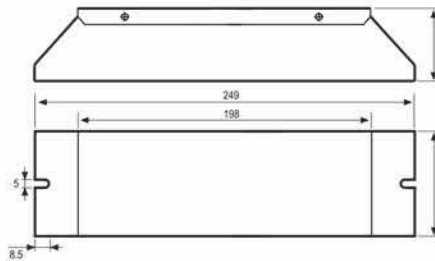
Weight: 0.45Kg

Features

- > electronic ballast for one-lamp or two-lamps operation
- > to be used with four-wire lamps
- > Preheat start
- > status indication via 5V DC signal output indicators
 - DC 5V: lamp on
 - DC 0V: lamp fault
- *connected LED

Mounting Restrictions

- Wire gauge: 0.5-1.5mm², strip length: 8mm
- Disconnect input power before installing or servicing
- Ballast case must be grounded
- Don't short any two wires of the input and output wires
- For indoor use only
- Max.Cable length between the ballast and lamp: 5.0m



Part Number: 820075003

EPL2X75W/425mA

Technical Data

EPL2X75W/425mA (PH8-800-155)

Lamp power: 40~100W

Wiring diagram A

Lamp type: GPH1148~1630T5L
G48T5L, G64T5L, G67T5L, TUV64T5L

Wiring diagram B

Lamp type: GPH793~893T5L
G36T5L, TUV36T5L

Lamp current: 0.38~0.43A

Mains voltage: 110~240VAC 50/60Hz

Efficiency: >90%

Operating frequency: 25~60KHz

Power factor: >0.9 typ.

Ambient temperature: 0~40°C

Tc-temperature: Max. 70°C

Dimensions: 249X65X40mm

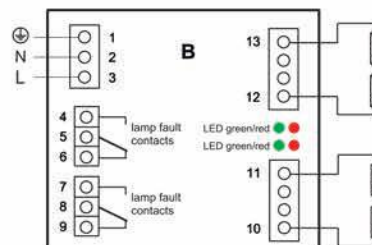
Weight: 0.48Kg

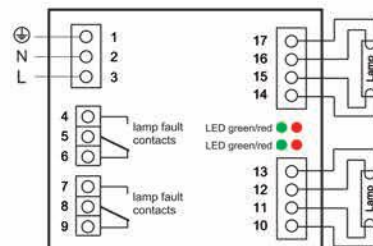
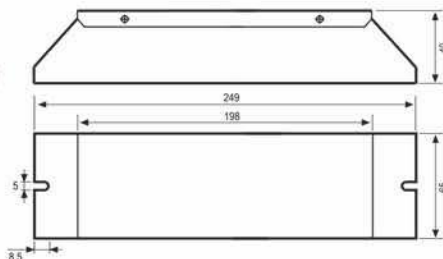
Features

- > electronic ballast for two-lamps operation
- > to be used with two-wire or four-wire lamps
- > Instant start
- > status forwarding
 - potential free relay contacts for lamp on / lamp fault
 - relay activated: lamp on
- > relay contacts:
 - potential free, load: 50~500mA at 24~277V AC
 - 50~500mA at 5~30V DC

Mounting Restrictions

Wire gauge: 0.5-1.5mm², strip length: 8mm
 Disconnect input power before installing or servicing
 Ballast case must be grounded
 Don't short any two wires of the input and output wires
 For indoor use only
 Max. Cable length between the ballast and lamp: 1.5m




Part Number: 820075005

EPS2X75W/425mA

Technical Data

Lamp power:	40~100W
Wiring diagram A	
Lamp type:	GPH793~1630T5L G36~67T5L, TUV64T5L
Lamp current:	0.38~0.43A
Mains voltage:	99~264VAC 50/60Hz
Efficiency:	>90%
Operating frequency:	25~60KHz
Power factor:	>0.9 typ.
Ambient temperature:	0~40°C
Tc-temperature:	Max. 70°C
Dimensions:	249X65X45mm
Weight:	0.48Kg

Features

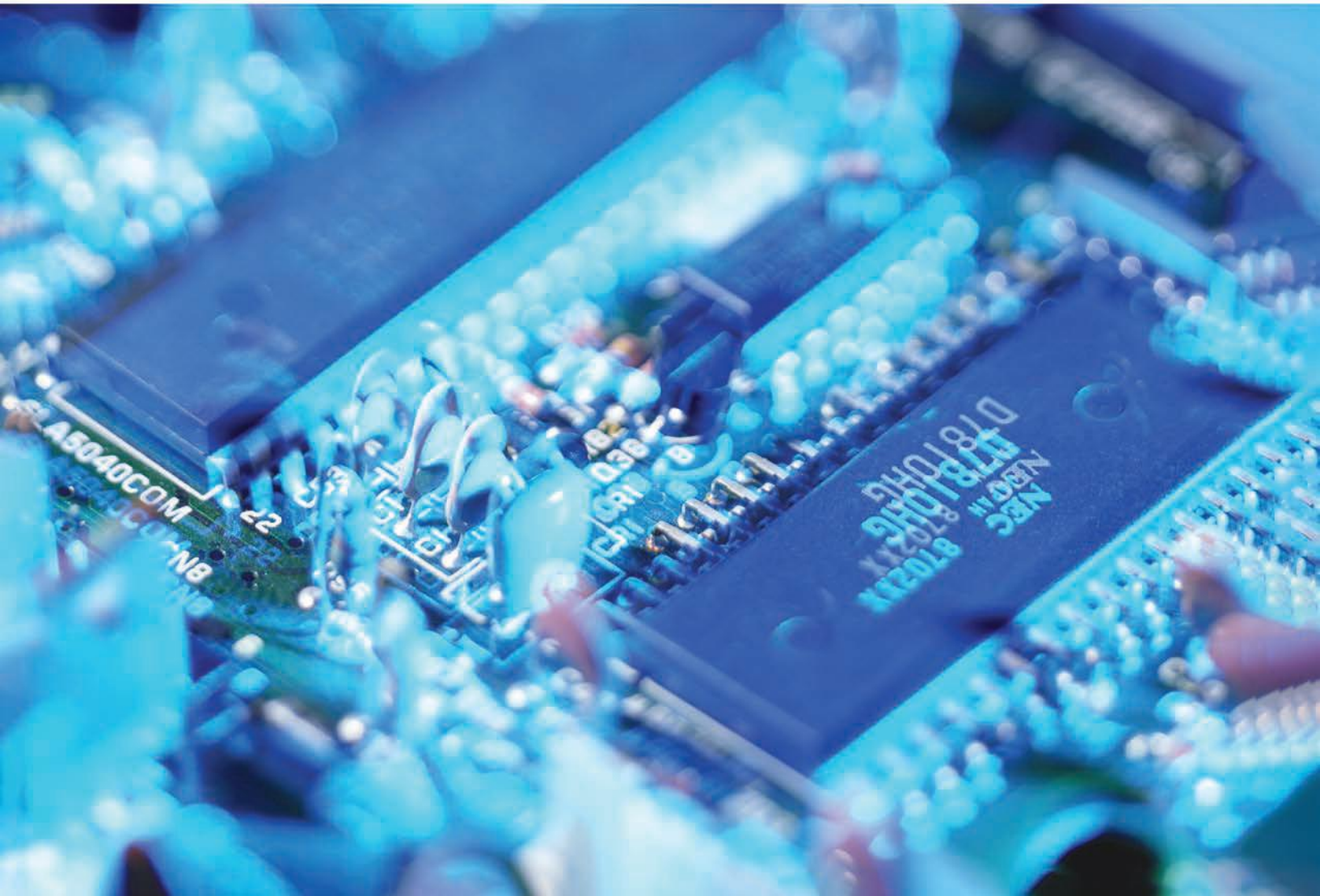
- > electronic ballast for two-lamps operation
- > to be used with four-wire lamps
- > Preheat start
- > status forwarding
 - potential free relay contacts for lamp on / lamp fault
 - relay activated: lamp on
- > relay contacts:
 - potential free, load: 50~500mA at 24~277V AC
 - 50~500mA at 5~30V DC

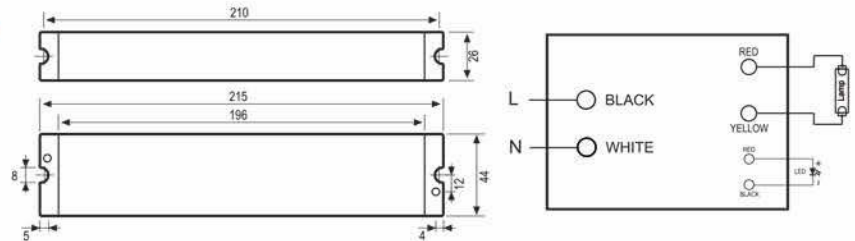
Mounting Restrictions

Wire gauge: 0.5-1.5mm², strip length: 8mm
 Disconnect input power before installing or servicing
 Ballast case must be grounded
 Don't short any two wires of the input and output wires
 For indoor use only
 Max. Cable length between the ballast and lamp: 5.0m

17~23 ballasts for High Output UV lamps
(HO UV lamp, 800mA)

Providing a Comprehensive Solution





Part Number: 810100005

EPL100W/800mA

Technical Data

Lamp power:	35~100W
Lamp type:	GPH436~893T5LHO,GHO36T5L TUV36T5LHO,TUV55WHO,TUV75WHO
Lamp current:	0.80~0.90A
Mains voltage:	198~264VAC 50/60Hz
Efficiency.:	>90%
Operating frequency:	40~60KHz
Power factor:	>0.6 typ.
Ambient temperature:	0~40°C
Tc-temperature:	Max. 70°C
Dimensions:	215X44X26mm
Input wire length:	430mm
output wire length:	630mm
Signal wire length:	630mm
Weight:	0.36Kg

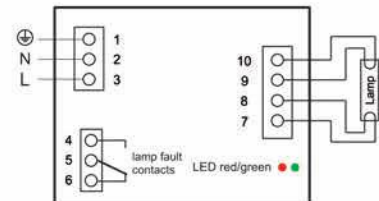
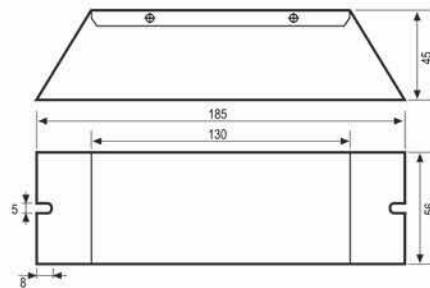
Features

- > electronic ballast for one-lamp operation
- > to be used with two-wire lamps or four-wire lamps
- > instant start
- > status indication via 5V DC signal output indicators
 - DC 5V: lamp on
 - DC 0V: lamp fault
 - *connected LED
- > for applications with less than three switch-on cycle per day (otherwise preheat start ballasts are recommended)

Mounting Restrictions

Disconnect input power before installing or servicing
 Ballast case must be grounded
 Don't short any two wires of the input and output wires
 For indoor use only
 Max.Cable length between the ballast and lamp: 1.5m

120V Version Part number: 810100011
EPL100W/800mA/120V



Part Number: 810100008

EPS100W/800mA

Technical Data

Lamp power: 35~100W
 Lamp type: GPH436~893T5LHO,GHO36T5L
 TUV36T5HO,TUV55WHO,TUV75WHO
 Lamp current: 0.80~0.90A

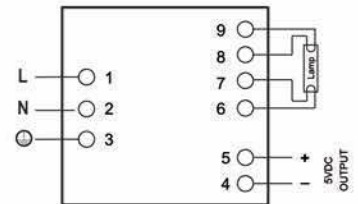
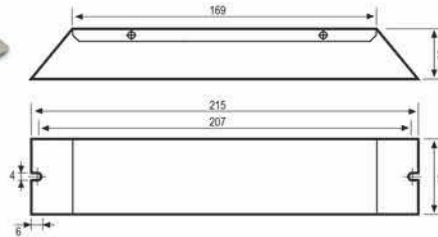
Mains voltage: 99~264VAC 50/60Hz
 Efficiency.: >90%
 Operating frequency: 25~60KHz
 Power factor: >0.9 typ.
 Ambient temperature: 0~40°C
 Tc-temperature: Max. 70°C
 Dimensions: 185X56X45mm
 Weight: 0.28Kg

Features

- > electronic ballast for one-lamp operation
- > to be used with four-wire lamps
- > Preheat start
- > status forwarding
 - potential free relay contacts for lamp on / lamp fault
 - relay activated: lamp on
- > relay contacts:
 - potential free, load: 50~500mA at 24~277V AC
 - 50~500mA at 5~30V DC

Mounting Restrictions

Wire gauge: 0.5-1.5mm², strip length: 8mm
 Disconnect input power before installing or servicing
 Ballast case must be grounded
 Don't short any two wires of the input and output wires
 For indoor use only
 Max. Cable length between the ballast and lamp: 5.0m



Part Number: 810100009

EPS100W/800mA/T

Technical Data

Lamp power: 35~100W
 Lamp type: GPH436~893T5LHO,GHO36T5L
 TUV36T5HO,TUV55WHO,TUV75WHO
 Lamp current: 0.80~0.90A

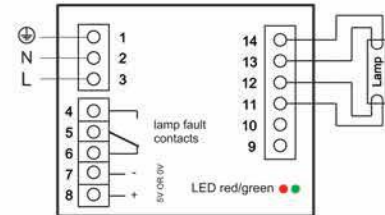
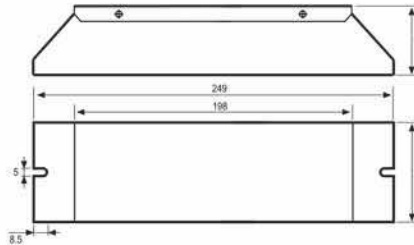
Mains voltage: 99~264VAC 50/60Hz
 Efficiency: >90%
 Operating frequency: 25~60KHz
 Power factor: >0.9 typ.
 Ambient temperature: 0~40°C
 Tc-temperature: Max. 70°C
 Dimensions: 215X42X28mm
 Weight: 0.24Kg

Features

- > electronic ballast for one-lamp operation
- > to be used with four-wire lamps
- > Preheat start
- > status indication via 5V DC signal output indicators
 - DC 5V: lamp on
 - DC 0V: lamp fault
 - *connected LED

Mounting Restrictions

Wire gauge: 0.5-1.5mm², strip length: 8mm
 Disconnect input power before installing or servicing
 Ballast case must be grounded
 Don't short any two wires of the input and output wires
 For indoor use only
 Max.Cable length between the ballast and lamp: 5.0m



Part Number: 810150001

EPS150W/800mA

Technical Data

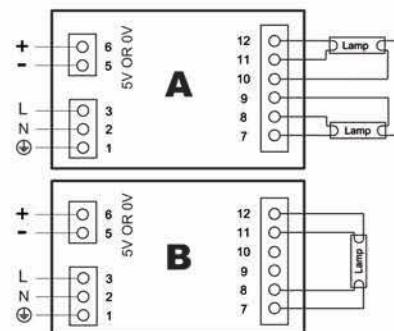
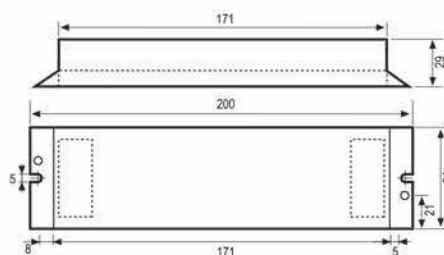
Lamp power:	100~155W
Lamp type:	GHO64T5L, GPH1554T5LHO TUV64T5LHO
Lamp current:	0.80~0.90A
Mains voltage:	99~264VAC 50/60Hz
Efficiency:	>90%
Operating frequency:	25~60KHz
Power factor:	>0.9 typ.
Ambient temperature:	0~40°C
Tc-temperature:	Max. 70°C
Dimensions:	249X65X40mm
Weight:	0.48Kg

Features

- > electronic ballast for one-lamp operation
- > to be used with four-wire lamps
- > Preheat start
- > status forwarding
 - potential free relay contacts for lamp on / lamp fault
 - relay activated: lamp on
- > relay contacts:
 - potential free, load: 50~500mA at 24~277V AC
 - 50~500mA at 5~30V DC

Mounting Restrictions

Wire gauge: 0.5~1.5mm², strip length: 8mm
 Disconnect input power before installing or servicing
 Ballast case must be grounded
 Don't short any two wires of the input and output wires
 For indoor use only
 Max. Cable length between the ballast and lamp: 5.0m



Part Number: 820075001

EPS2X75W/800mA

Technical Data

Wiring diagram A

Lamp power: 10~75W
Lamp type: GPH436~843T5LHO
TUV36T5LHO

Wiring diagram B

Lamp power: 87~155W
Lamp type: GPH1148~1554T5LHO
Lamp current: 0.75~0.85A

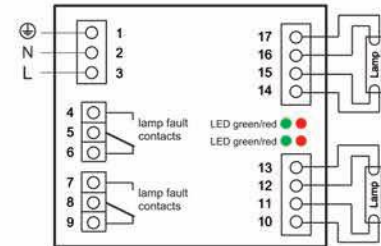
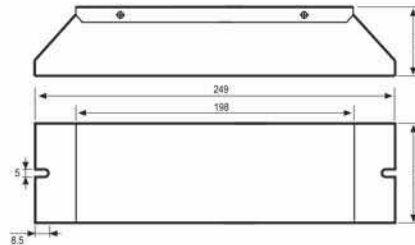
Mains voltage: 110~240VAC 50/60Hz
Efficiency: >90%
Operating frequency: 25~60KHz
Power factor: >0.9 typ.
Ambient temperature: 0~40°C
Tc-temperature: Max. 70°C
Dimensions: 200X64X29mm
Weight: 0.45Kg

Features

- > electronic ballast for one-lamp or two-lamps operation
- > to be used with four-wire lamps
- > Preheat start
- > status indication via 5V DC signal output indicators
 - DC 5V: lamp on
 - DC 0V: lamp fault
- *connected LED

Mounting Restrictions

Wire gauge: 0.5-1.5mm², strip length: 8mm
Disconnect input power before installing or servicing
Ballast case must be grounded
Don't short any two wires of the input and output wires
For indoor use only
Max.Cable length between the ballast and lamp: 5.0m



Part Number: 820120001

EPS2X120W/800mA

Technical Data

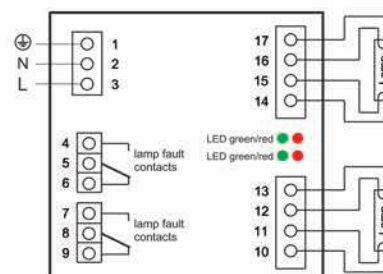
Lamp power:	40~120W
Lamp type:	GPH436~1148T5L/HO G36T5L/HO, G48T5L/HO
Lamp current:	0.75~0.85A
Mains voltage:	198~264VAC 50/60Hz
Efficiency:	>90%
Operating frequency:	25~60KHz
Power factor:	>0.9 typ.
Ambient temperature:	0~40°C
Tc-temperature:	Max. 70°C
Dimensions:	249X65X45mm
Weight:	0.48Kg

Features

- > electronic ballast for two-lamps operation
- > to be used with four-wire lamps
- > Preheat start
- > status forwarding
 - potential free relay contacts for lamp on / lamp fault
 - relay activated: lamp on
- > relay contacts:
 - potential free, load: 50~500mA at 24~277V AC
 - 50~500mA at 5~30V DC

Mounting Restrictions

Wire gauge: 0.5-1.5mm², strip length: 8mm
 Disconnect input power before installing or servicing
 Ballast case must be grounded
 Don't short any two wires of the input and output wires
 For indoor use only
 Max. Cable length between the ballast and lamp: 5.0m


Part Number: 820150003

EPS2X155W/800mA

Technical Data

Lamp power:	100~155W
Lamp type:	GHO64T5L, GPH1554T5LHO TUV64T5LHO
Lamp current:	0.80~0.90A
Mains voltage:	198~264VAC 50/60Hz
Efficiency:	>90%
Operating frequency:	25~60KHz
Power factor:	>0.9 typ.
Ambient temperature:	0~40°C
Tc-temperature:	Max. 70°C
Dimensions:	249X108X57mm
Weight:	0.90Kg

Features

- > electronic ballast for two-lamps operation
- > to be used with four-wire lamps
- > preheat start
- > status forwarding
 - potential free relay contacts for lamp on / lamp fault
 - relay activated: lamp on
- > relay contacts:
 - potential free, load: 50~500mA at 24~277V AC
 - 50~500mA at 5~30V DC

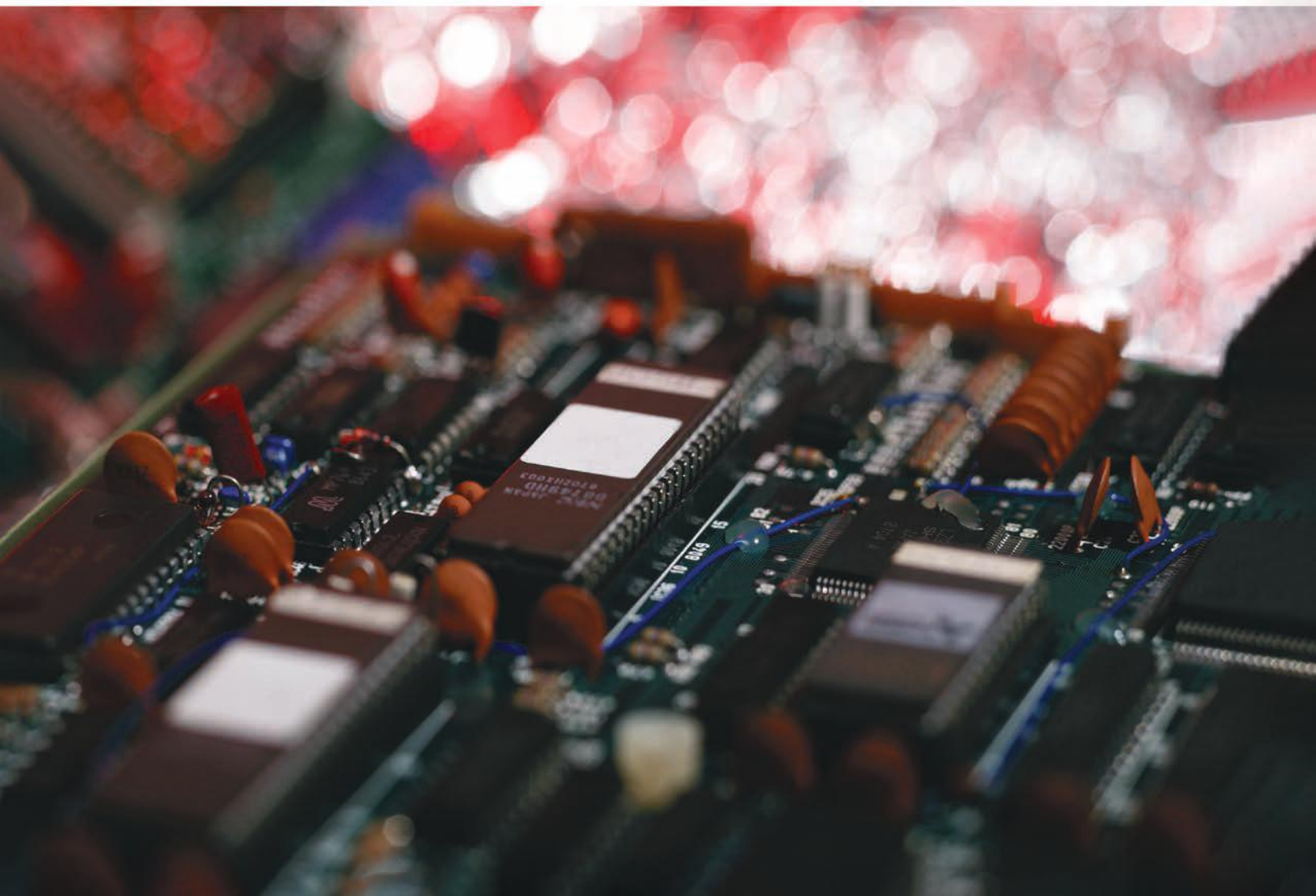
Mounting Restrictions

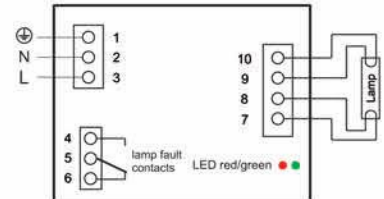
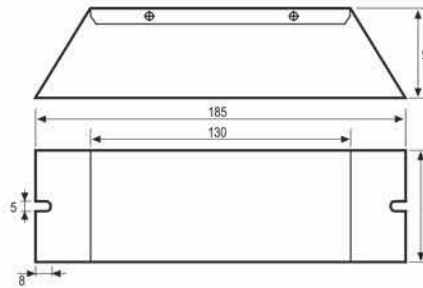
Wire gauge: 0.5-1.5mm², strip length: 8mm
 Disconnect input power before installing or servicing
 Ballast case must be grounded
 Don't short any two wires of the input and output wires
 For indoor use only
 Max. Cable length between the ballast and lamp: 5.0m

Instant Version Part number: 8201500004

24~36 ballasts for Amalgam UV lamps
(1.2A~8.0A)

Providing a Comprehensive Solution





Part Number: 810105001

EPS105W/1.2A

Technical Data

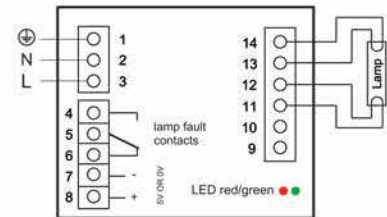
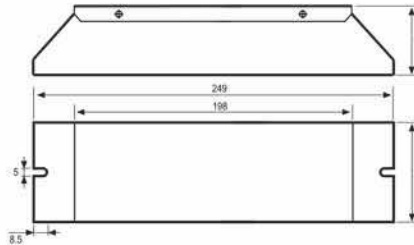
Lamp power:	42~105W
Lamp type:	GPHA357~843T5L
Lamp current:	1.10~1.30A
Mains voltage:	99~264VAC 50/60Hz
Efficiency:	>90%
Operating frequency:	25~60KHz
Power factor:	>0.9 typ.
Ambient temperature:	0~40°C
Tc-temperature:	Max. 70°C
Dimensions:	185X56X45mm
Weight:	0.28Kg

Features

- > electronic ballast for one-lamp operation
- > to be used with four-wire lamps
- > Preheat start
- > status forwarding
 - potential free relay contacts for lamp on / lamp fault
 - relay activated: lamp on
- > relay contacts:
 - potential free, load: 50~500mA at 24~277V AC
 - 50~500mA at 5~30V DC

Mounting Restrictions

Wire gauge: 0.5-1.5mm², strip length: 8mm
 Disconnect input power before installing or servicing
 Ballast case must be grounded
 Don't short any two wires of the input and output wires
 For indoor use only
 Max. Cable length between the ballast and lamp: 5.0m



Part Number: 810200001

EPS200W/1.2A

Technical Data

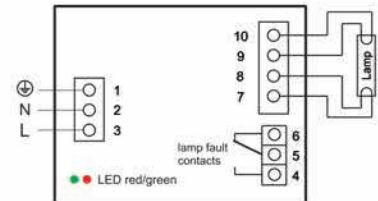
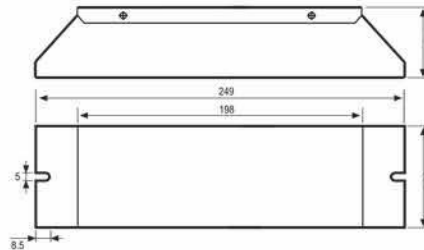
Lamp power:	100~200W
Lamp type:	GPHA1000T5L, GPHA1554T5L
Lamp current:	1.10~1.30A
Mains voltage:	99~264VAC 50/60Hz
Efficiency:	>90%
Operating frequency:	25~60KHz
Power factor:	>0.9 typ.
Ambient temperature:	0~40°C
Tc-temperature:	Max. 70°C
Dimensions:	249X65X40mm
Weight:	0.60Kg

Features

- > electronic ballast for one-lamp operation
- > to be used with four-wire lamps
- > Preheat start
- > status forwarding
 - potential free relay contacts for lamp on / lamp fault
 - relay activated: lamp on
- > relay contacts:
 - potential free, load: 50~500mA at 24~277V AC
 - 50~500mA at 5~30V DC

Mounting Restrictions

Wire gauge: 0.5-1.5mm², strip length: 8mm
 Disconnect input power before installing or servicing
 Ballast case must be grounded
 Don't short any two wires of the input and output wires
 For indoor use only
 Max. Cable length between the ballast and lamp: 5.0m



Part Number: 810200002

EPS200W/1.5A

Technical Data

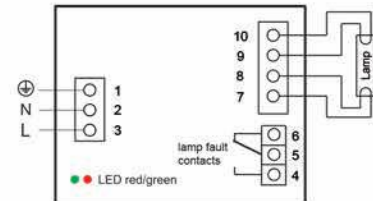
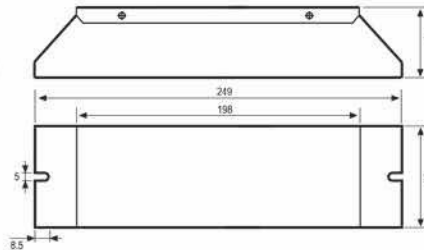
Lamp power:	100~200W
Lamp type:	NNI120, NIQ120
Lamp current:	1.40~1.60A
Mains voltage:	99~264VAC 50/60Hz
Efficiency:	>90%
Operating frequency:	25~60KHz
Power factor:	>0.9 typ.
Ambient temperature:	0~40°C
Tc-temperature:	Max. 70°C
Dimensions:	249X65X45mm
Weight:	0.60Kg

Features

- > electronic ballast for one-lamp operation
- > to be used with four-wire lamps
- > Preheat start
- > status forwarding
 - potential free relay contacts for lamp on / lamp fault
 - relay activated: lamp on
- > relay contacts:
 - potential free, load: 50~500mA at 24~277V AC
 - 50~500mA at 5~30V DC

Mounting Restrictions

Wire gauge: 0.5-1.5mm², strip length: 8mm
 Disconnect input power before installing or servicing
 Ballast case must be grounded
 Don't short any two wires of the input and output wires
 For indoor use only
 Max. Cable length between the ballast and lamp: 5.0m


Part Number: 810200003

EPS200W/1.8A

Technical Data

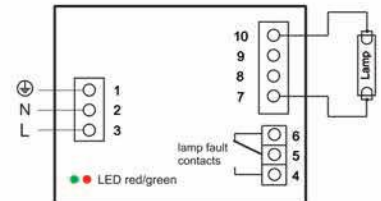
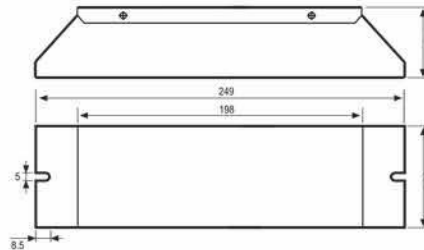
Lamp power:	100~200W
Lamp type:	GPHA843~1200T6L
Lamp current:	1.70~1.90A
Mains voltage:	99~264VAC 50/60Hz
Efficiency.:	>90%
Operating frequency:	25~60KHz
Power factor:	>0.9 typ.
Ambient temperature:	0~40°C
Tc-temperature:	Max. 70°C
Dimensions:	249X65X45mm
Weight:	0.60Kg

Features

- > electronic ballast for one-lamp operation
- > to be used with four-wire lamps
- > Preheat start
- > status forwarding
 - potential free relay contacts for lamp on / lamp fault
 - relay activated: lamp on
- > relay contacts:
 - potential free, load: 50~500mA at 24~277V AC
 - 50~500mA at 5~30V DC

Mounting Restrictions

Wire gauge: 0.5-1.5mm², strip length: 8mm
 Disconnect input power before installing or servicing
 Ballast case must be grounded
 Don't short any two wires of the input and output wires
 For indoor use only
 Max. Cable length between the ballast and lamp: 5.0m



Part Number: 810200004

EPL200W/2.1A

Technical Data

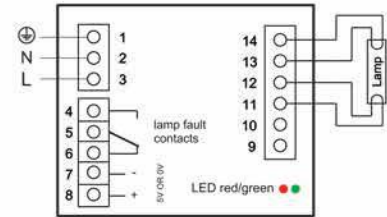
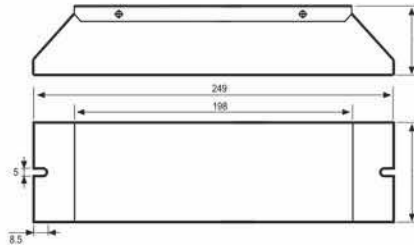
Lamp power:	100~200W
Lamp type:	GPHHA843~1000T6L
Lamp current:	2.0~2.2A
Mains voltage:	99~264VAC 50/60Hz
Efficiency.:	>90%
Operating frequency:	25~60KHz
Power factor:	>0.9 typ.
Ambient temperature:	0~40°C
Tc-temperature:	Max. 70°C
Dimensions:	249X65X45mm
Weight:	0.60Kg

Features

- > electronic ballast for one-lamp operation
- > to be used with two-wire lamp or four-wire lamps
- > Instant start
- > status forwarding
 - potential free relay contacts for lamp on / lamp fault
 - relay activated: lamp on
- > relay contacts:
 - potential free, load: 50~500mA at 24~277V AC
 - 50~500mA at 5~30V DC
- > for applications with less than three switch-on cycle per day (otherwise preheat start ballasts are recommended)

Mounting Restrictions

Wire gauge: 0.5-1.5mm², strip length: 8mm
 Disconnect input power before installing or servicing
 Ballast case must be grounded
 Don't short any two wires of the input and output wires
 For indoor use only
 Max. Cable length between the ballast and lamp: 1.5m



Part Number: 810200005

EPS200W/2.1A

Technical Data

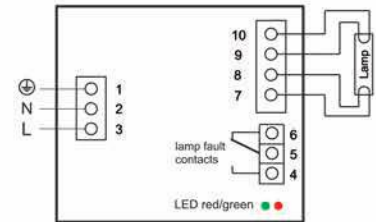
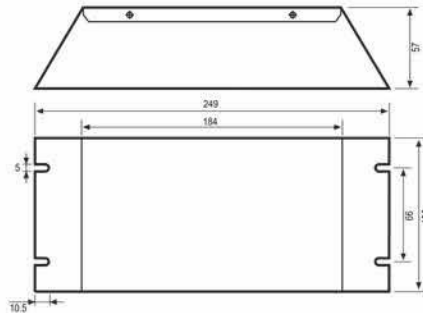
Lamp power:	100~200W
Lamp type:	GPHHA843~1000T6L
Lamp current:	2.0~2.2A
Mains voltage:	99~264VAC 50/60Hz
Efficiency:	>90%
Operating frequency:	25~60KHz
Power factor:	>0.9 typ.
Ambient temperature:	0~40°C
Tc-temperature:	Max. 70°C
Dimensions:	249X65X45mm
Weight:	0.60Kg

Features

- > electronic ballast for one-lamp operation
- > to be used with four-wire lamps
- > Preheat start
- > status forwarding
 - potential free relay contacts for lamp on / lamp fault
 - relay activated: lamp on
- > relay contacts:
 - potential free, load: 50~500mA at 24~277V AC
 - 50~500mA at 5~30V DC

Mounting Restrictions

Wire gauge: 0.5-1.5mm², strip length: 8mm
 Disconnect input power before installing or servicing
 Ballast case must be grounded
 Don't short any two wires of the input and output wires
 For indoor use only
 Max. Cable length between the ballast and lamp: 5.0m



Part Number: 810240001

EPS240W/1.8A

Technical Data

Lamp power: 200~240W
 Lamp type: GPHA1554T6L, NNI200/107XL
 Lamp current: 1.70~1.90A

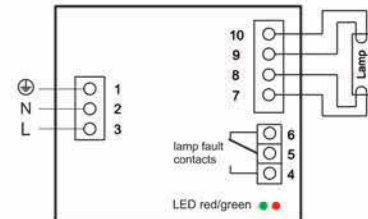
Mains voltage: 198~264VAC 50/60Hz
 Efficiency.: >90%
 Operating frequency: 25~60KHz
 Power factor: >0.9 typ.
 Ambient temperature: 0~40°C
 Tc-temperature: Max. 70°C
 Dimensions: 249X108X57mm
 Weight: 0.90Kg

Features

- > electronic ballast for one-lamp operation
- > to be used with four-wire lamps
- > Preheat start
- > status forwarding
 - potential free relay contacts for lamp on / lamp fault
 - relay activated: lamp on
- > relay contacts:
 - potential free, load: 50~500mA at 24~277V AC
 - 50~500mA at 5~30V DC

Mounting Restrictions

Wire gauge: 0.5-1.5mm², strip length: 8mm
 Disconnect input power before installing or servicing
 Ballast case must be grounded
 Don't short any two wires of the input and output wires
 For indoor use only
 Max. Cable length between the ballast and lamp: 5.0m


Part Number: 810320001

EPS320W/2.1A

Technical Data

Lamp power: 200~320W
 Lamp type: GPHHA1554T6L, NNI300/147XL
 Lamp current: 2.0~2.2A

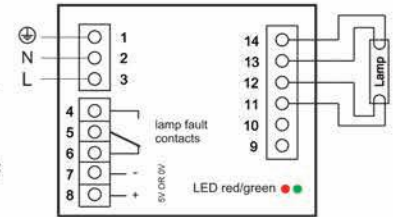
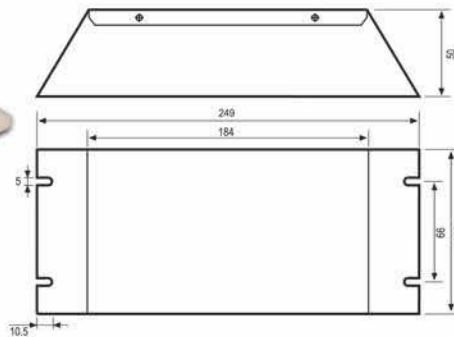
Mains voltage: 198~264VAC 50/60Hz
 Efficiency: >90%
 Operating frequency: 25~60KHz
 Power factor: >0.9 typ.
 Ambient temperature: 0~40°C
 Tc-temperature: Max. 70°C
 Dimensions: 249X108X57mm
 Weight: 0.60Kg

Features

- > electronic ballast for one-lamp operation
- > to be used with four-wire lamps
- > Preheat start
- > status forwarding
 - potential free relay contacts for lamp on / lamp fault
 - relay activated: lamp on
- > relay contacts:
 - potential free, load: 50~500mA at 24~277V AC
 - 50~500mA at 5~30V DC

Mounting Restrictions

Wire gauge: 0.5~1.5mm², strip length: 8mm
 Disconnect input power before installing or servicing
 Ballast case must be grounded
 Don't short any two wires of the input and output wires
 For indoor use only
 Max. Cable length between the ballast and lamp: 5.0m



Part Number: 810320003

EPS320W/2.1A/UL

Technical Data

Lamp power: 200~320W
 Lamp type: GPHHA1554T6L, NNI300/147XL
 Lamp current: 2.0~2.2A

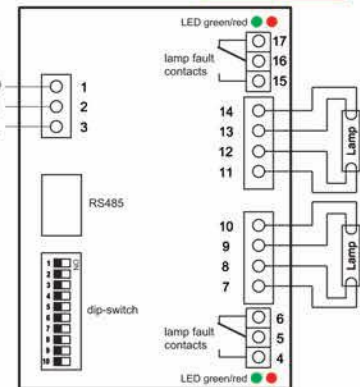
Mains voltage: 198~264VAC 50/60Hz
 Efficiency: >90%
 Operating frequency: 25~60KHz
 Power factor: >0.9 typ.
 Ambient temperature: 0~40°C
 Tc-temperature: Max. 70°C
 Dimensions: 249X108X57mm
 Weight: 0.60Kg

Features

- > electronic ballast for one-lamp operation
- > to be used with four-wire lamps
- > Preheat start
- > status forwarding
 - potential free relay contacts for lamp on / lamp fault
 - relay activated: lamp on
- > relay contacts:
 - potential free, load: 50~500mA at 24~277V AC
 - 50~500mA at 5~30V DC

Mounting Restrictions

Wire gauge: 0.5-1.5mm², strip length: 8mm
 Disconnect input power before installing or servicing
 Ballast case must be grounded
 Don't short any two wires of the input and output wires
 For indoor use only
 Max. Cable length between the ballast and lamp: 5.0m


Part Number: 820320001

EPS2X320W/1.8~2.1A

Technical Data

Lamp power:	200~320W
Lamp type:	GPHA1554T6L, NNI200/107XL GPHHA1554T6L, NNI300/147XL
Lamp current:	1.8A/2.1A
Mains voltage:	198~264VAC 50/60Hz
Efficiency:	>90%
Operating frequency:	25~60KHz
Power factor:	>0.9 typ.
Ambient temperature:	0~40°C
Tc-temperature:	Max. 70°C
Dimensions:	250X141X57mm
Weight:	1.30Kg

Dip-Switch	1	for local control	0		
	2		0		
	3	preheat time	8S	12S	
	4		0	1	
	5	preheat current	2.0A	2.8A	3.0A
	6		1	0	1
	7	Lamp current	0	1	1
	8		1.8A	2.0A	2.2A
	9		1	0	1
	10	Local ON	0	0	1

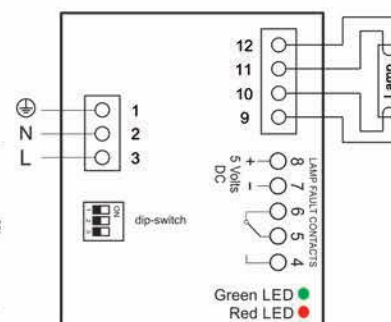
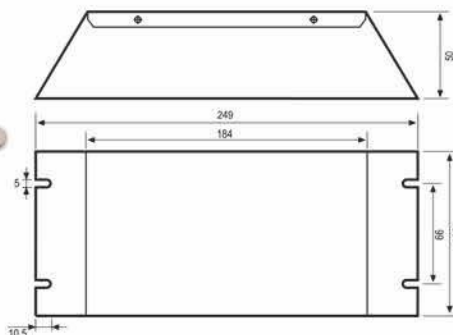
Features

- > electronic ballast for one-lamp operation
- > to be used with four-wire lamps
- > Preheat start
- > status forwarding
 - potential free relay contacts for lamp on / lamp fault
 - relay activated: lamp on
- > relay contacts:
 - potential free, load: 50~500mA at 24~277V AC
 - 50~500mA at 5~30V DC

Mounting Restrictions

Wire gauge: 0.5~1.5mm², strip length: 8mm
 Disconnect input power before installing or servicing
 Ballast case must be grounded
 Don't short any two wires of the input and output wires
 For indoor use only
 Max. Cable length between the ballast and lamp: 5.0m

RS485/Modbus Version Part number: 820320002
EPS2X320W/1.8~2.1A/S


Part Number: 810400001

EPS400W/1.8~3.8A

Technical Data

Lamp power: 200~400W
 Lamp type: GPHA1554T6L, GPHHA1554T6L,
 NNI300/147XL, GPHHA1310T10L
 Lamp current: 1.8~3.8A

Mains voltage: 198~264VAC 50/60Hz
 Efficiency: >90%
 Operating frequency: 25~60KHz
 Power factor: >0.9 typ.
 Ambient temperature: 0~40°C
 Tc-temperature: Max. 70°C
 Dimensions: 249X100X50mm
 Weight: 0.98Kg

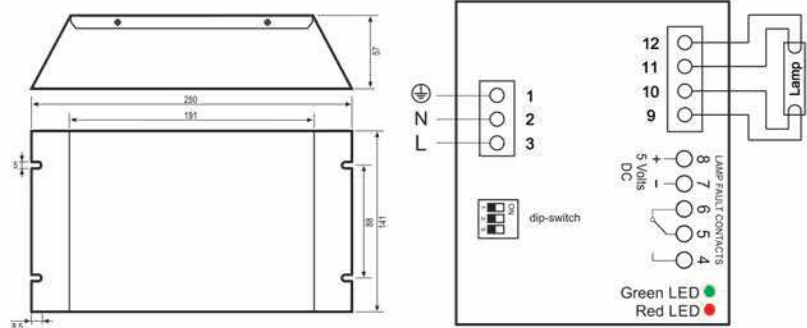
DIP-Switch			lamp current	preheat current	preheat time
1	2	3			
0	0	0	3.8A	3.0A	12S
0	0	1	3.8A	3.0A	12S
0	1	0	1.8A	1.5A	5S
0	1	1	1.8A	2.8A	12S
1	0	0	2.1A	2.8A	12S
1	0	1	2.1A	2.0A	8S
1	1	0	2.9A	3.0A	12S
1	1	1	3.3A	3.0A	12S

Features

- > electronic ballast for one-lamp operation
- > to be used with four-wire lamps
- > Preheat start
- > status forwarding
 - potential free relay contacts for lamp on / lamp fault
 - relay activated: lamp on
- > relay contacts:
 - potential free, load: 50~500mA at 24~277V AC
 - 50~500mA at 5~30V DC

Mounting Restrictions

Wire gauge: 0.5-1.5mm², strip length: 8mm
 Disconnect input power before installing or servicing
 Ballast case must be grounded
 Don't short any two wires of the input and output wires
 For indoor use only
 Max. Cable length between the ballast and lamp: 5.0m


Part Number: 810600001

EPS600W/4.7~6.0A

Technical Data

Lamp power:	330~600W
Lamp type:	GPHHA1310T10L GPHHA1554T10L, NNI400, NNI600
Lamp current:	4.7A~6.0A
Mains voltage:	198~264VAC 50/60Hz
Efficiency:	>90%
Operating frequency:	25~60KHz
Power factor:	>0.9 typ.
Ambient temperature:	0~40°C
Tc-temperature:	Max. 70°C
Dimensions:	250X141X57mm
Weight:	1.40Kg

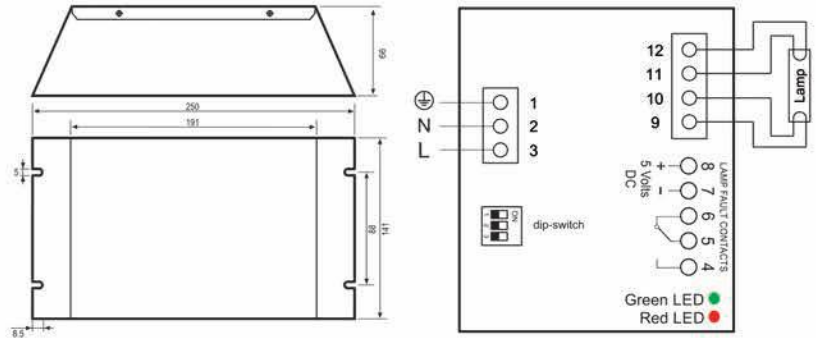
DIP Switch	Preheat Current [A]	Preheat Time [S]	Lamp Current [A]
0 0 1	6.0 A	12 S	6.0 A
0 1 0	6.0 A	24 S	6.0 A
0 1 1	5.0 A	12 S	4.7 A
1 0 0	5.0 A	12 S	5.0 A
1 0 1	5.0 A	12 S	5.5 A
1 1 0	5.0 A	20 S	5.5 A
1 1 1	5.0 A	24 S	5.5 A

Features

- > electronic ballast for one-lamp operation
- > to be used with four-wire lamps
- > Preheat start
- > status forwarding
 - potential free relay contacts for lamp on / lamp fault
 - relay activated: lamp on
- > relay contacts:
 - potential free, load: 50~500mA at 24~277V AC
 - 50~500mA at 5~30V DC

Mounting Restrictions

Wire gauge: 0.5-1.5mm², strip length: 8mm
 Disconnect input power before installing or servicing
 Ballast case must be grounded
 Don't short any two wires of the input and output wires
 For indoor use only
 Max. Cable length between the ballast and lamp: 5.0m



Part Number: 810800001

EPS800W/4.5~8.0A

Technical Data

Lamp power: 500~800W
 Lamp type: GPHHA1520T10L, GIA1513T10L, NNI800, TUV800W
 Lamp current: 4.5A~8.0A

Mains voltage: 198~264VAC 50/60Hz
 Efficiency: >90%
 Operating frequency: 25~60KHz
 Power factor: >0.9 typ.
 Ambient temperature: 0~40°C
 Tc-temperature: Max. 70°C
 Dimensions: 250X141X66mm
 Weight: 1.50Kg

DIP Switch	Preheat Current [A]	Preheat Time [S]	Lamp Current [A]
0 0 0	5.0 A	21 S	4.5 A
0 0 1	5.0 A	21 S	5.0 A
0 1 0	5.5 A	21 S	5.0 A
0 1 1	6.0 A	21 S	6.0 A
1 0 0	6.5 A	21 S	6.5 A
1 0 1	6.0 A	21 S	7.0 A
1 1 0	8.0 A	21 S	7.0 A
1 1 1	8.0 A	30 S	8.0 A

Features

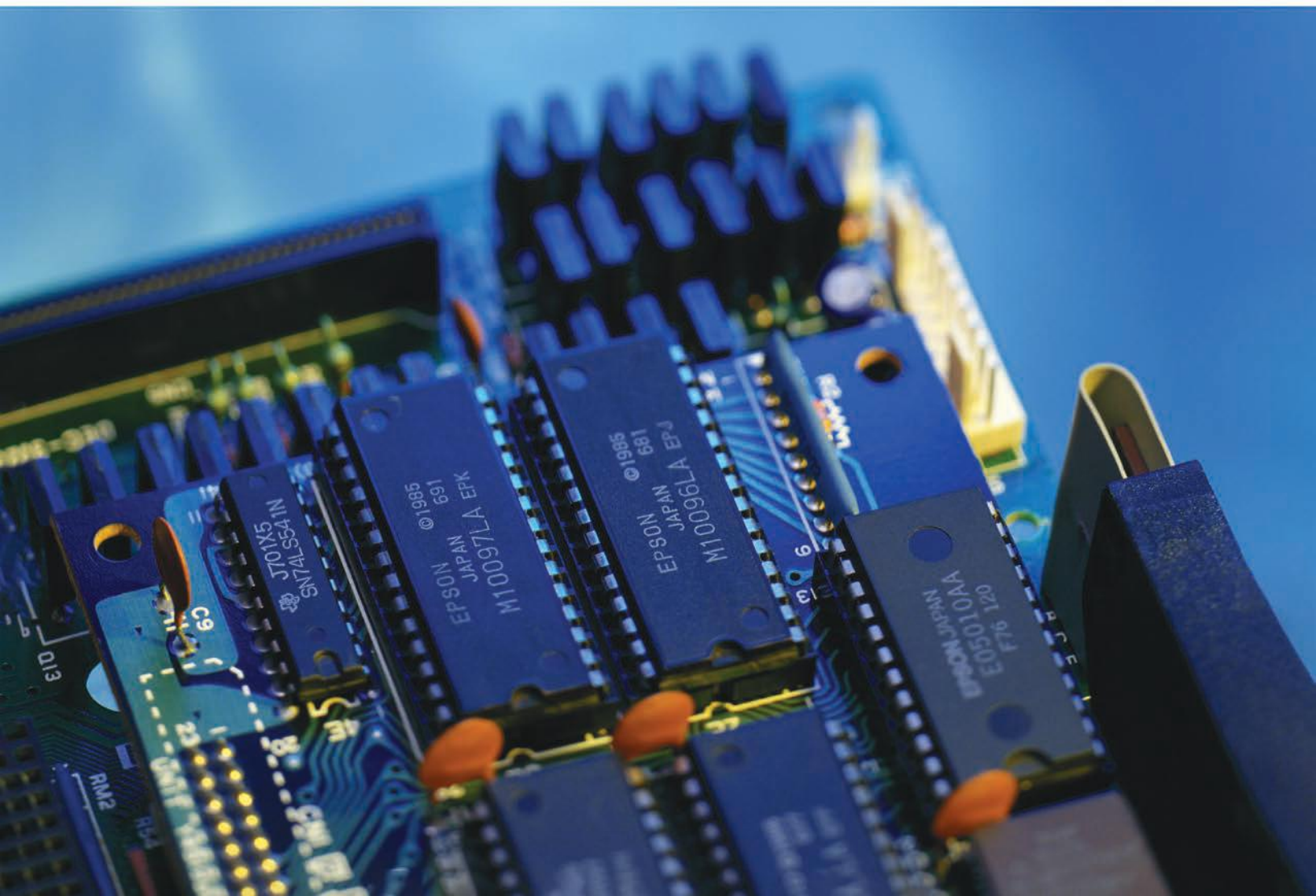
- > electronic ballast for one-lamp operation
- > to be used with four-wire lamps
- > Preheat start
- > status forwarding
 - potential free relay contacts for lamp on / lamp fault
 - relay activated: lamp on
- > relay contacts:
 - potential free, load: 50~500mA at 24~277V AC
 - 50~500mA at 5~30V DC

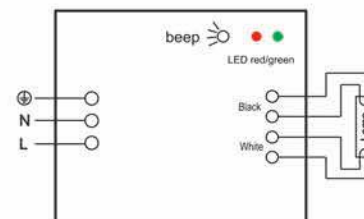
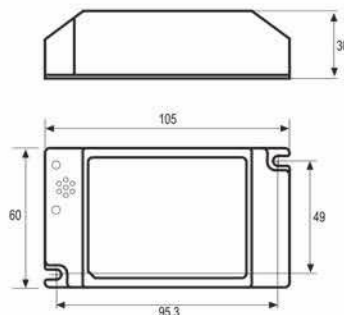
Mounting Restrictions

Wire gauge: 0.5-1.5mm², strip length: 8mm
 Disconnect input power before installing or servicing
 Ballast case must be grounded
 Don't short any two wires of the input and output wires
 For indoor use only
 Max. Cable length between the ballast and lamp: 5.0m

37~42 ballasts with digital tube for UV lamps
(standard, high output and amalgam UV
lamp, 425mA~2.1A)

Providing a Comprehensive Solution





Part Number: 811040010

EPS40W/425mA/P

Technical Data

Lamp power:	10~40W
Lamp type:	GPH212~893T5L TUV16W, TUV20W, TUV36T5L, TUV36W
Lamp current:	0.38~0.43A

Mains voltage:	198~264VAC 50/60Hz
Efficiency:	>90%
Operating frequency:	25~60KHz
Power factor:	>0.9 typ.
Ambient temperature:	0~40°C
Tc-temperature:	Max. 70°C
Dimensions:	105X60X30mm
Weight:	0.30Kg

Optional Parts

-  01 Input wire: CE UL ...
-  02 Output wire: 4X20AWG 4X18AWG...
-  03 Lamp connector G10Q
-  04 Water joint PG9, PG13.5, M16X1.5
-  05 Dust cover

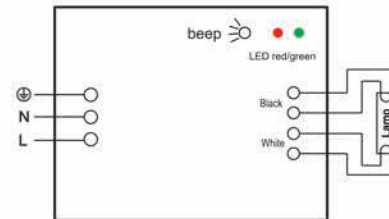
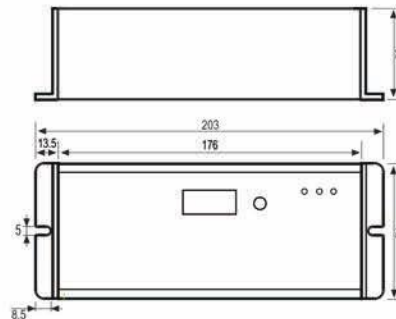
Features

- > electronic ballast for one-lamp operation
- > to be used with four-wire lamps
- > Preheat start
- > status indication via LED indicators and Alarm
- green led: lamp on
- red led: lamp fault or no lamp

Mounting Restrictions

Disconnect input power before installing or servicing
 Don't short any two wires of the input and output wires
 For indoor use only
 Max.Cable length between the ballast and lamp: 3.0m

120V Version Part number: 8110400011



Part Number: 811040001

EPS40W/425mA/L

Technical Data

Lamp power:	10~40W
Lamp type:	GPH212~893T5L TUV36T5L, TUV36W
Lamp current:	0.38~0.43A
Mains voltage:	99~264VAC 50/60Hz
Efficiency:	>90%
Operating frequency:	40~60KHz
Power factor:	>0.9 typ.
Ambient temperature:	0~40°C
Tc-temperature:	Max. 70°C
Dimensions:	203X74X53mm
Weight:	0.55Kg

Optional Parts

-  01 Input wire: CE UL ...
-  02 Output wire: 4X20AWG 4X18AWG...
-  03 Lamp connector G10Q
-  04 Water joint PG9, PG13.5, M16X1.5
-  05 Dust cover

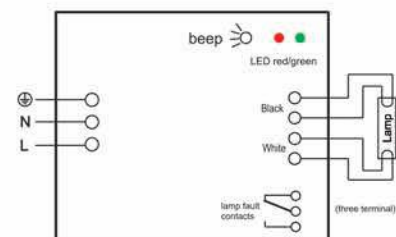
Features

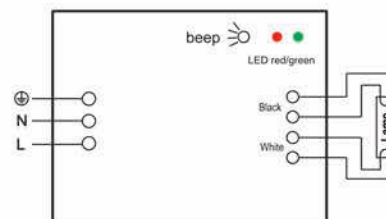
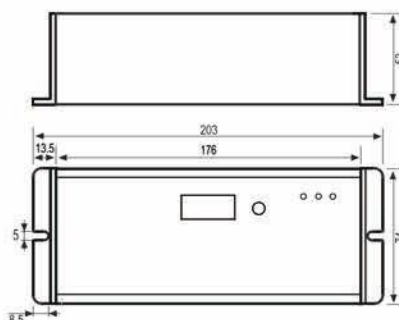
- > electronic ballast for one-lamp operation
- > to be used with four-wire lamps
- > preheat start
- > status indication via LED indicators and Alarm
 - green led: lamp on
 - red led: lamp fault or no lamp
- > the ballast life and lamp life display(days) via Digital tube

Mounting Restrictions

Disconnect input power before installing or servicing
 Ballast case must be grounded
 Don't short any two wires of the input and output wires
 Max.Cable length between the ballast and lamp: 3.0m
 For indoor use only

3 free contact Version Part number: 811040020
EPS40W/425mA/N





Part Number: 811100001

EPS100W/800mA/L

Technical Data

Lamp power:	40~100W
Lamp type:	GPH212~893T5LHO TUV36T5LHO, TUV75W
Lamp current:	0.80~0.90A
Mains voltage:	99~264VAC 50/60Hz
Efficiency:	>90%
Operating frequency:	40~60KHz
Power factor:	>0.9 typ.
Ambient temperature:	0~40°C
Tc-temperature:	Max. 70°C
Dimensions:	203X74X53mm
Weight:	0.56Kg

Optional Parts

- 01 Input wire: CE UL ...
- 02 Output wire: 4X20AWG 4X18AWG...
- 03 Lamp connector G10Q
- 04 Water joint PG9, PG13.5, M16X1.5
- 05 Dust cover

Features

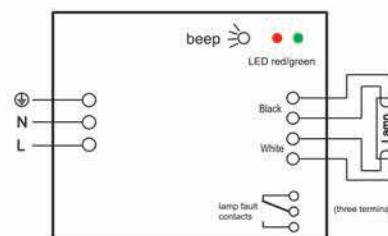
- > electronic ballast for one-lamp operation
- > to be used with four-wire lamps
- > preheat start
- > status indication via LED indicators and Alarm
 - green led: lamp on
 - red led: lamp fault or no lamp
- > the ballast life and lamp life display(days) via Digital tube

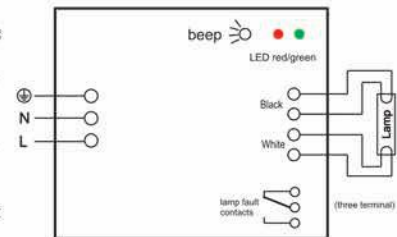
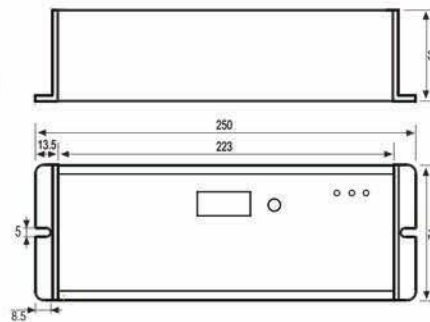
Mounting Restrictions

Disconnect input power before installing or servicing
 Ballast case must be grounded
 Don't short any two wires of the input and output wires
 Max.Cable length between the ballast and lamp: 3.0m
 For indoor use only

3 free contact Version Part number: 811100020
EPS100W/800mA/N

3 free contact and 1.2A Version Part number: 811105001
EPS105W/1.2A/N




Part Number: 811200001

EPS200W/1.8A/N

Technical Data

Lamp power:	100~200W
Lamp type:	GPHA843~1200T6L
Lamp current:	1.70~1.90A
Mains voltage:	99~264VAC 50/60Hz
Efficiency:	>90%
Operating frequency:	40~60KHz
Power factor:	>0.9 typ.
Ambient temperature:	0~40°C
Tc-temperature:	Max. 70°C
Dimensions:	250X74X53mm
Weight:	0.95Kg

Optional Parts

-  01 Input wire: CE UL ...
-  02 Output wire: 4X20AWG 4X18AWG...
-  03 Lamp connector G10Q
-  04 Water joint PG9, PG13.5, M16X1.5
-  05 Dust cover

Features

- > electronic ballast for one-lamp operation
- > to be used with four-wire lamps
- > preheat start
- > status indication via LED indicators and Alarm
 - green led: lamp on
 - red led: lamp fault or no lamp
- > the ballast life and lamp life display(days) via Digital tube
- > status forwarding
 - potential free relay contacts for lamp on/lamp fault
 - replay activated: lamp on
 - potential free, load: 50~500mA at 24~277V AC or 5~30V DC

Mounting Restrictions

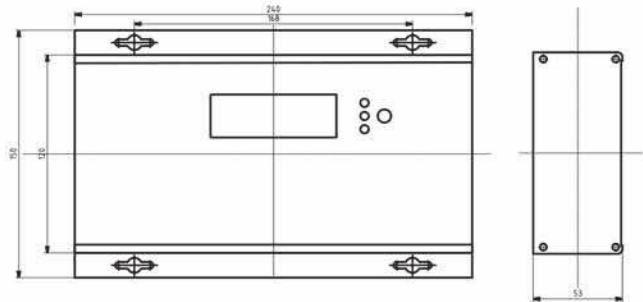
Disconnect input power before installing or servicing
 Ballast case must be grounded
 Don't short any two wires of the input and output wires
 Max.Cable length between the ballast and lamp: 3.0m
 For indoor use only

Lamp current 1.5A Version Part number

811200002 EPS200W/1.5A/N

Lamp current 2.1A Version Part number

811200003 EPS200W/2.1A/N



Part Number: 880040001

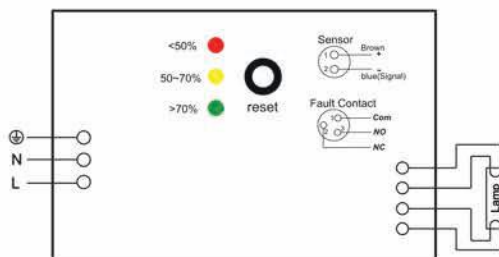
EPS40W/425mA/S ADV

Technical Data

Lamp power:	10~40W
Lamp type:	GPH212~893T5L TUV16W, TUV36T5L, TUV36W
Lamp current:	0.38~0.43A
Mains voltage:	99~264VAC 50/60Hz
Efficiency:	>90%
Operating frequency:	40~60KHz
Power factor:	>0.9 typ.
Ambient temperature:	0~40°C
Tc-temperature:	Max. 70°C
Dimensions:	245X150X53mm
Weight:	2.0Kg

Press the button more than 8 seconds for the default value Setting:

- 01: Set the relative value of UV intensity to 100%
02: Lamp life 9000 hours



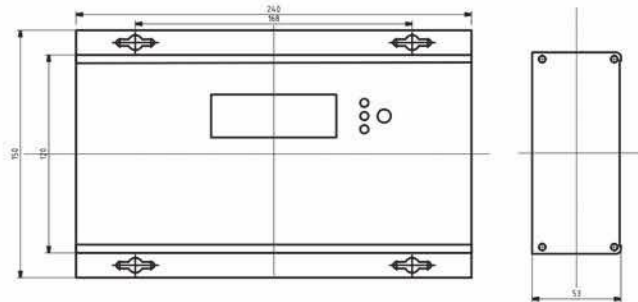
Features

- > for one-lamp operation, preheat start
- > to be used with four-wire lamps
- > UV Sensor with 254nm, 0~20000uW/cm²
- > UV intensity status indication via LED indicators and fault contact
green led: >70%; yellow led: 50~70%; red led: <50%
- > LCD display: sensor status, lamp status, temperature of box
- > status forwarding
potential free relay contacts for UV intensity
reply activated: <50% of UV intensity
potential free, load: 50~500mA at 24~277V AC or 5~30V DC
- > reset relative value of UV intensity to 100%
- > UV sensor: HS1-I, HS2-I, HS3-I

Mounting Restrictions

Disconnect input power before installing or servicing
Ballast case must be grounded
Don't short any two wires of the input and output wires
Max.Cable length between the ballast and lamp: 3.0m
For indoor use only

RS485 Remote Version Part number: 888040001
EPS40W/425mA/S MST



Part Number: 880100001

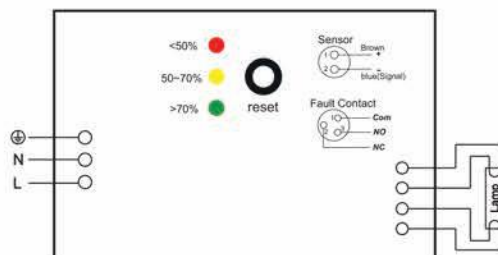
EPS100W/800mA/S ADV

Technical Data

Lamp power:	40~100W
Lamp type:	GPH212~843T5L/HO TUV36T5L/HO, TUV75W
Lamp current:	0.75~0.85A
Mains voltage:	99~264VAC 50/60Hz
Efficiency:	>90%
Operating frequency:	40~60KHz
Power factor:	>0.9 typ.
Ambient temperature:	0~40°C
Tc-temperature:	Max. 70°C
Dimensions:	245X150X53mm
Weight:	2.0Kg

Press the button more than 8 seconds for the default value Setting:

- 01: Set the relative value of UV intensity to 100%
02: Lamp life 9000 hours



Features

- > for one-lamp operation, preheat start
- > to be used with four-wire lamps
- > UV Sensor with 254nm, 0~20000uW/cm²
- > UV intensity status indication via LED indicators and fault contact
green led: >70%; yellow led: 50~70%; red led: <50%
- > LCD display: sensor status, lamp status, temperature of box
- > status forwarding
potential free relay contacts for UV intensity
replay activated: <50% of UV intensity
potential free, load: 50~500mA at 24~277V AC or 5~30V DC
- > reset relative value of UV intensity to 100%
- > UV sensor: HS1-I, HS2-I, HS3-I

Mounting Restrictions

Disconnect input power before installing or servicing
Ballast case must be grounded
Don't short any two wires of the input and output wires
Max.Cable length between the ballast and lamp: 3.0m
For indoor use only

RS485 Remote Version Part number: 888100001
EPS100W/800mA/S MST



汉升光电科技

专注UV紫外线检测及应用



UV Sensor and Monitor
Providing a Comprehensive Solution
专业紫外线探头及UV检测系统

Overview

45~81 Sensors and Monitors

Providing a Comprehensive Solution



The waterproof UVC sensor serves as robust, long-time stable measuring head for the precise measurement of UVC irradiances in UV water disinfection systems and UV Air purification systems.

A superior long-time stability and corrosion resistance is achieved by the selection of suitable materials.



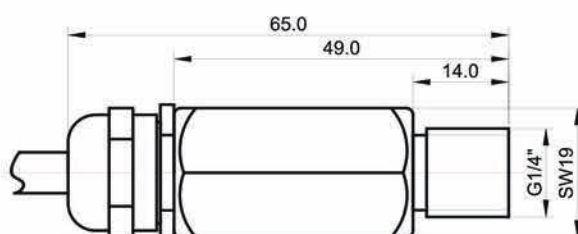
Part No.	Sensor Type	Power Supply	Signal	Output Value	Measuring range	Load Impedance
70001001	HS1-U	5V DC	voltage output	0~5V	20mW/cm ²	>1KΩ
70001002	HS1-U	5V DC	voltage output	0~5V	50mW/cm²	>1KΩ

The sensor can be directly connected to the UV-Monitor HM-1, HM-2, HM-3, HM-4 or HM-5 via a 2.5 meter long (standard) shielded cable. Thus integration into UV-lamp monitoring, adjustment and control is possible.

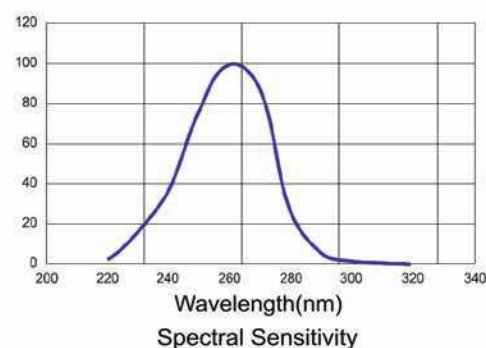
Technical Data

Resolution	0.01mW/cm ²
Weight:	150g
Operating temp.:	0~60°C
Storage temp.:	-10~70°C
Humidity:	<80%
Body:	Stainless steel 316L
Max. pressure:	10bar
Cable:	Length 2.5m(longer on request)

Dimensions



Wiring Diagram



The waterproof UVC sensor serves as robust, long-time stable measuring head for the precise measurement of UVC irradiances in UV water disinfection systems and UV Air purification systems.

A superior long-time stability and corrosion resistance is achieved by the selection of suitable materials.



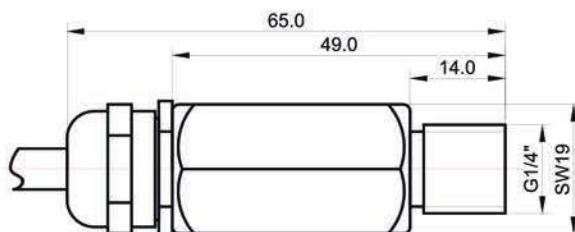
Part No.	Sensor Type	Power Supply	Signal	Output Value	Measuring range	Load Impedance
70001011	HS1-U24	24V DC	voltage output	0~5V	20mW/cm ²	>1KΩ
70001012	HS1-U24	24V DC	voltage output	0~5V	50mW/cm²	>1KΩ

The sensor can be directly connected to the PLC or other equipment via a 2.5 meter long (standard) shielded cable. Thus integration into UV-lamp monitoring, adjustment and control is possible.

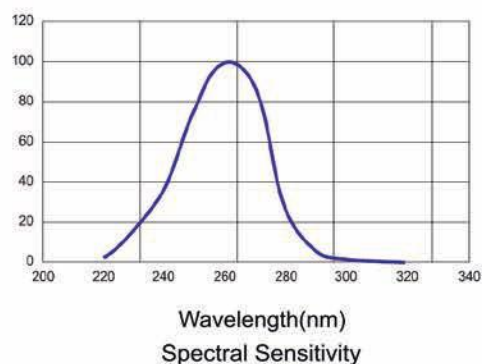
Technical Data

Resolution	0.01mW/cm ²
Weight:	150g
Operating temp.:	0~60°C
Storage temp.:	-10~70°C
Humidity:	<80%
Body:	Stainless steel 316L
Max. pressure:	10bar
Cable:	Length 2.5m(longer on request)

Dimensions



Wiring Diagram



The waterproof UVC sensor serves as robust, long-time stable measuring head for the precise measurement of UVC irradiances in UV water disinfection systems and UV Air purification systems.

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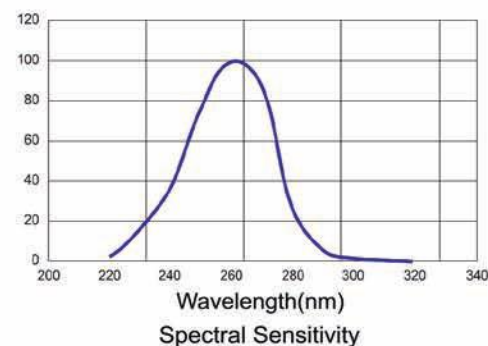
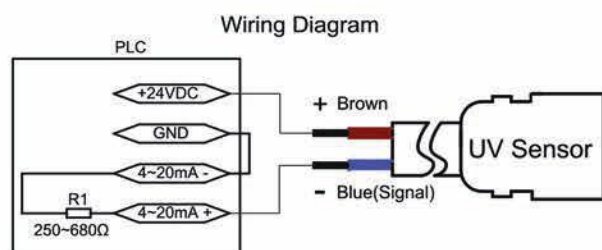
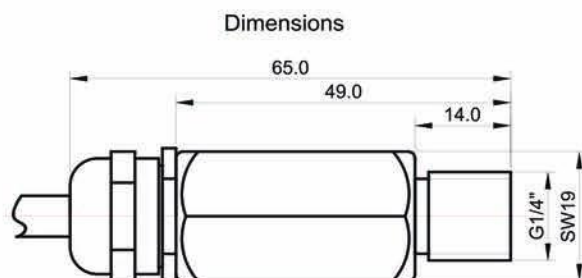


Part No.	Sensor Type	Power Supply	Signal	Output Value	Measuring range	Load Impedance
70001021	HS1-I	12V / 24V DC	current output	4~20mA	20mW/cm ²	>1KΩ
70001022	HS1-I	12V / 24V DC	current output	4~20mA	50mW/cm²	>1KΩ

The sensor can be directly connected to the PLC or other equipment via a 2.5 meter long (standard) shielded cable. Thus integration into UV-lamp monitoring, adjustment and control is possible.

Technical Data

Resolution	0.01mW/cm ²
Weight:	150g
Operating temp.:	0~60°C
Storage temp.:	-10~70°C
Humidity:	<80%
Body:	Stainless steel 316L
Max. pressure:	10bar
Cable:	Length 2.5m(longer on request)



The waterproof UVC sensor serves as robust, long-time stable measuring head for the precise measurement of UVC irradiances in UV water disinfection systems and UV Air purification systems.

A superior long-time stability and corrosion resistance is achieved by the selection of suitable materials.



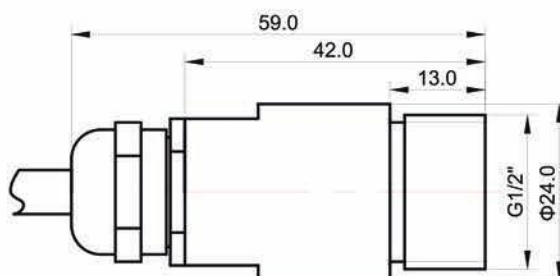
Part No.	Sensor Type	Power Supply	Signal	Output Value	Measuring range	Load Impedance
70002001	HS2-U	5V DC	voltage output	0~5V	20mW/cm ²	>1KΩ
70002002	HS2-U	5V DC	voltage output	0~5V	50mW/cm²	>1KΩ

The sensor can be directly connected to the UV-Monitor HM-1, HM-2, HM-3, HM-4 or HM-5 via a 2.5 meter long (standard) shielded cable. Thus integration into UV-lamp monitoring, adjustment and control is possible.

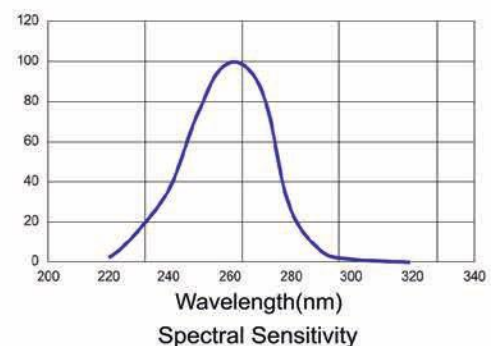
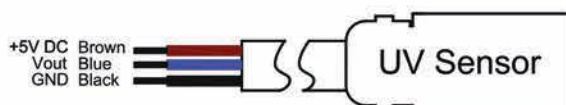
Technical Data

Resolution	0.01mW/cm ²
Weight:	180g
Operating temp.:	0~60°C
Storage temp.:	-10~70°C
Humidity:	<80%
Body:	Stainless steel 316L
Max. pressure:	10bar
Cable:	Length 2.5m(longer on request)

Dimensions



Wiring Diagram



The waterproof UVC sensor serves as robust, long-time stable measuring head for the precise measurement of UVC irradiances in UV water disinfection systems and UV Air purification systems.

A superior long-time stability and corrosion resistance is achieved by the selection of suitable materials.

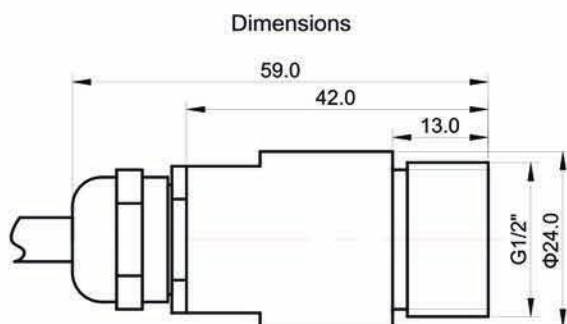


Part No.	Sensor Type	Power Supply	Signal	Output Value	Measuring range	Load Impedance
70002011	HS2-U24	24V DC	voltage output	0~5V	20mW/cm ²	>1KΩ
70002012	HS2-U24	24V DC	voltage output	0~5V	50mW/cm²	>1KΩ

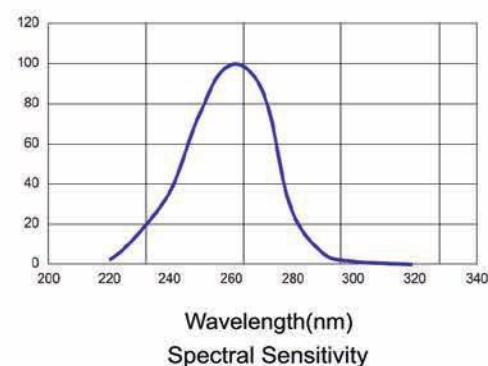
The sensor can be directly connected to the PLC or other equipment via a 2.5 meter long (standard) shielded cable. Thus integration into UV-lamp monitoring, adjustment and control is possible.

Technical Data

Resolution	0.01mW/cm ²
Weight:	180g
Operating temp.:	0~60°C
Storage temp.:	-10~70°C
Humidity:	<80%
Body:	Stainless steel 316L
Max. pressure:	10bar
Cable:	Length 2.5m(longer on request)



Wiring Diagram



The waterproof UVC sensor serves as robust, long-time stable measuring head for the precise measurement of UVC irradiances in UV water disinfection systems and UV Air purification systems.

A superior long-time stability and corrosion resistance is achieved by the selection of suitable materials.

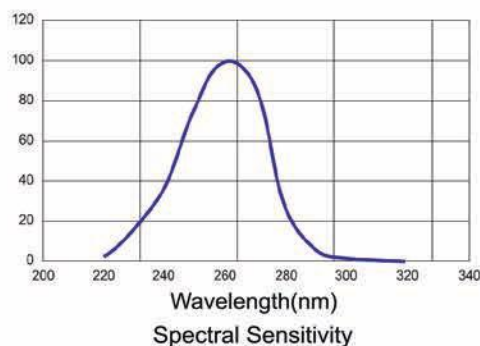
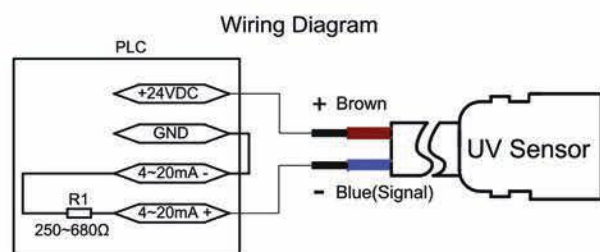


Part No.	Sensor Type	Power Supply	Signal	Output Value	Measuring range	Load Impedance
70002021	HS2-I	12V / 24V DC	current output	4~20mA	20mW/cm ²	>1KΩ
70002022	HS2-I	12V / 24V DC	current output	4~20mA	50mW/cm²	>1KΩ

The sensor can be directly connected to the PLC or other equipment via a 2.5 meter long (standard) shielded cable. Thus integration into UV-lamp monitoring, adjustment and control is possible.

Technical Data

Resolution	0.01mW/cm ²
Weight:	180g
Operating temp.:	0~60°C
Storage temp.:	-10~70°C
Humidity:	<80%
Body:	Stainless steel 316L
Max. pressure:	10bar
Cable:	Length 2.5m(longer on request)



The waterproof UVC sensor serves as robust, long-time stable measuring head for the precise measurement of UVC irradiances in UV water disinfection systems and UV Air purification systems.

A superior long-time stability and corrosion resistance is achieved by the selection of suitable materials.



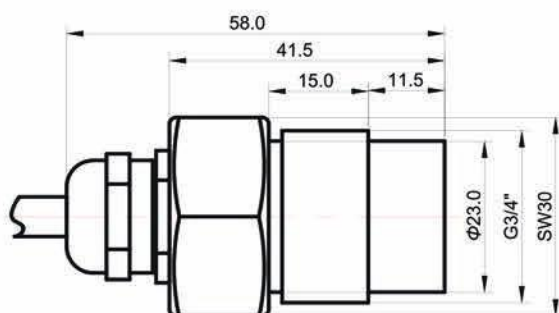
Part No.	Sensor Type	Power Supply	Signal	Output Value	Measuring range	Load Impedance
70003001	HS3-U	5V DC	voltage output	0~5V	20mW/cm ²	>1KΩ
70003002	HS3-U	5V DC	voltage output	0~5V	50mW/cm²	>1KΩ

The sensor can be directly connected to the UV-Monitor HM-1, HM-2, HM-3, HM-4 or HM-5 via a 2.5 meter long (standard) shielded cable. Thus integration into UV-lamp monitoring, adjustment and control is possible.

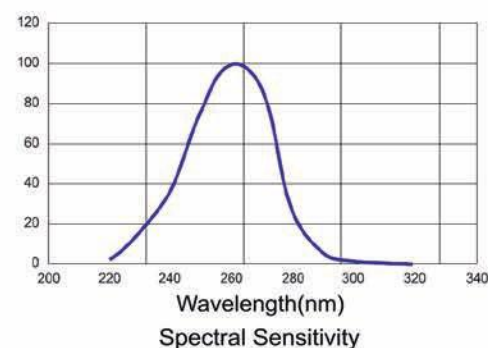
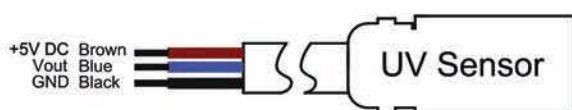
Technical Data

Resolution	0.01mW/cm ²
Weight:	240g
Operating temp.:	0~60°C
Storage temp.:	-10~70°C
Humidity:	<80%
Body:	Stainless steel 316L
Max. pressure:	10bar
Cable:	Length 2.5m(longer on request)

Dimensions



Wiring Diagram



The waterproof UVC sensor serves as robust, long-time stable measuring head for the precise measurement of UVC irradiances in UV water disinfection systems and UV Air purification systems.

A superior long-time stability and corrosion resistance is achieved by the selection of suitable materials.



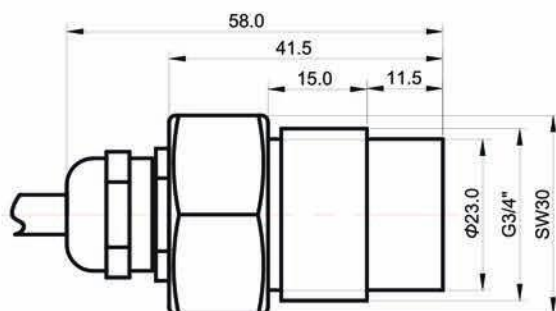
Part No.	Sensor Type	Power Supply	Signal	Output Value	Measuring range	Load Impedance
70003011	HS3-U24	24V DC	voltage output	0~5V	20mW/cm ²	>1KΩ
70003012	HS3-U24	24V DC	voltage output	0~5V	50mW/cm²	>1KΩ

The sensor can be directly connected to the PLC or other equipment via a 2.5 meter long (standard) shielded cable. Thus integration into UV-lamp monitoring, adjustment and control is possible.

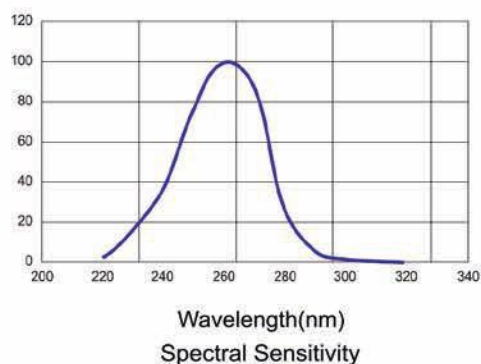
Technical Data

Resolution	0.01mW/cm ²
Weight:	240g
Operating temp.:	0~60°C
Storage temp.:	-10~70°C
Humidity:	<80%
Body:	Stainless steel 316L
Max. pressure:	10bar
Cable:	Length 2.5m(longer on request)

Dimensions



Wiring Diagram



The waterproof UVC sensor serves as robust, long-time stable measuring head for the precise measurement of UVC irradiances in UV water disinfection systems and UV Air purification systems.

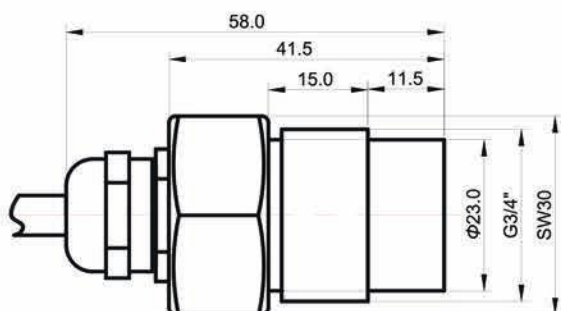
A superior long-time stability and corrosion resistance is achieved by the selection of suitable materials.



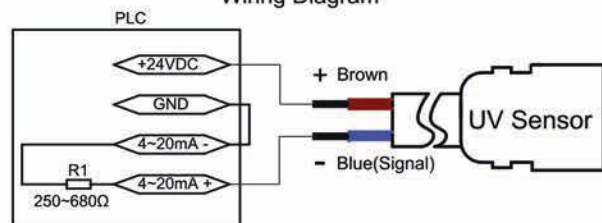
Part No.	Sensor Type	Power Supply	Signal	Output Value	Measuring range	Load Impedance
70003021	HS3-I	12V / 24V DC	current output	4~20mA	20mW/cm ²	>1KΩ
70003022	HS3-I	12V / 24V DC	current output	4~20mA	50mW/cm²	>1KΩ

The sensor can be directly connected to the PLC or other equipment via a 2.5 meter long (standard) shielded cable. Thus integration into UV-lamp monitoring, adjustment and control is possible.

Dimensions

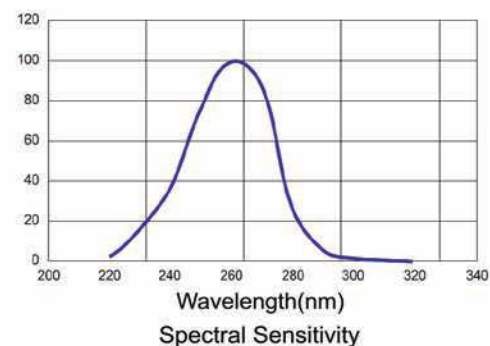


Wiring Diagram



Technical Data

Resolution	0.01mW/cm ²
Weight:	240g
Operating temp.:	0~60°C
Storage temp.:	-10~70°C
Humidity:	<80%
Body:	Stainless steel 316L
Max. pressure:	10bar
Cable:	Length 2.5m(longer on request)



The waterproof UVC sensor serves as robust, long-time stable measuring head for the precise measurement of UVC irradiances in UV water disinfection systems and UV Air purification systems.

A superior long-time stability and corrosion resistance is achieved by the selection of suitable materials.



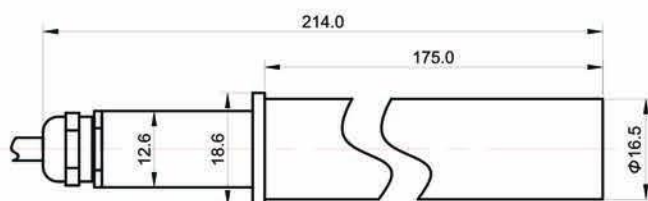
Part No.	Sensor Type	Power Supply	Signal	Output Value	Measuring range	Load Impedance
70004001	HS4-U	5V DC	voltage output	0~5V	20mW/cm ²	>1KΩ
70004002	HS4-U	5V DC	voltage output	0~5V	50mW/cm²	>1KΩ

The sensor can be directly connected to the UV-Monitor HM-1, HM-2, HM-3, HM-4 or HM-5 via a 2.5 meter long (standard) shielded cable. Thus integration into UV-lamp monitoring, adjustment and control is possible.

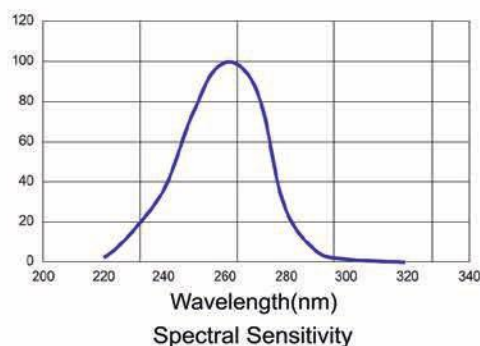
Technical Data

Resolution	0.01mW/cm ²
Weight:	240g
Operating temp.:	0~60°C
Storage temp.:	-10~70°C
Humidity:	<80%
Body:	Stainless steel 316L
Max. pressure:	10bar
Cable:	Length 2.5m(longer on request)

Dimensions



Wiring Diagram



The waterproof UVC sensor serves as robust, long-time stable measuring head for the precise measurement of UVC irradiances in UV water disinfection systems and UV Air purification systems.

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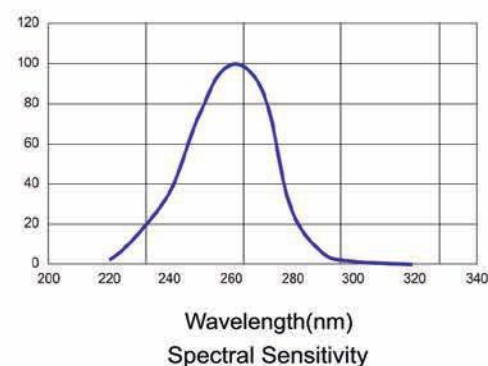
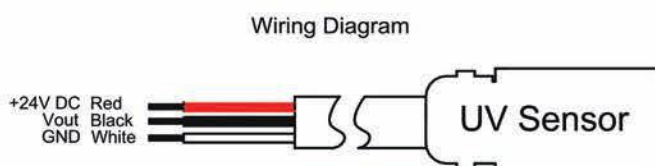
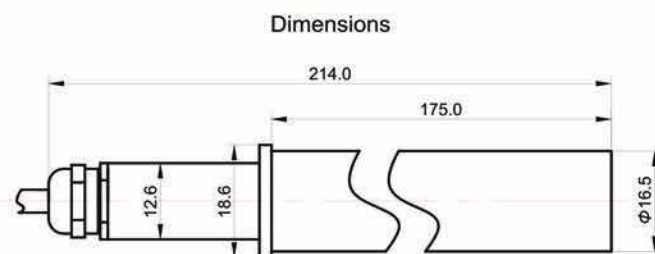


Part No.	Sensor Type	Power Supply	Signal	Output Value	Measuring range	Load Impedance
70004011	HS4-U24	24V DC	voltage output	0~5V	20mW/cm ²	>1KΩ
70004012	HS4-U24	24V DC	voltage output	0~5V	50mW/cm²	>1KΩ

The sensor can be directly connected to the PLC or other equipment via a 2.5 meter long (standard) shielded cable. Thus integration into UV-lamp monitoring, adjustment and control is possible.

Technical Data

Resolution	0.01mW/cm ²
Weight:	240g
Operating temp.:	0~60°C
Storage temp.:	-10~70°C
Humidity:	<80%
Body:	Stainless steel 316L
Max. pressure:	10bar
Cable:	Length 2.5m(longer on request)



The waterproof UVC sensor serves as robust, long-time stable measuring head for the precise measurement of UVC irradiances in UV water disinfection systems and UV Air purification systems.

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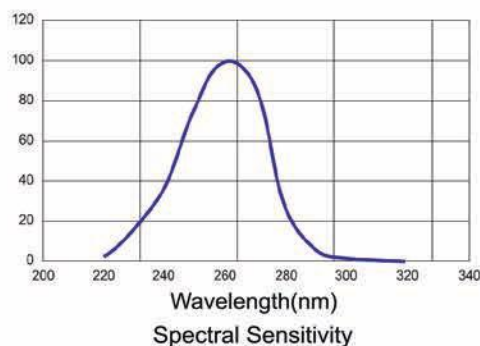
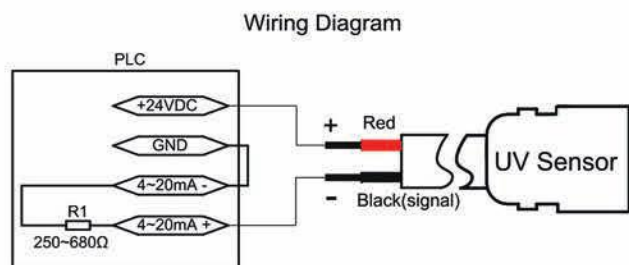
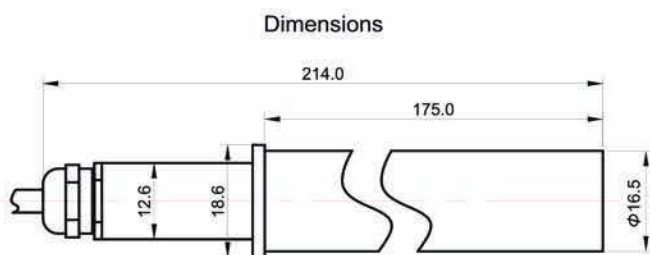


Part No.	Sensor Type	Power Supply	Signal	Output Value	Measuring range	Load Impedance
70004021	HS4-I	12V / 24V DC	current output	4~20mA	20mW/cm ²	>1KΩ
70004022	HS4-I	12V / 24V DC	current output	4~20mA	50mW/cm²	>1KΩ

The sensor can be directly connected to the PLC or other equipment via a 2.5 meter long (standard) shielded cable. Thus integration into UV-lamp monitoring, adjustment and control is possible.

Technical Data

Resolution	0.01mW/cm ²
Weight:	240g
Operating temp.:	0~60°C
Storage temp.:	-10~70°C
Humidity:	<80%
Body:	Stainless steel 316L
Max. pressure:	10bar
Cable:	Length 2.5m(longer on request)



The waterproof UVC sensor serves as robust, long-time stable measuring head for the precise measurement of UVC irradiances in UV water disinfection systems and UV Air purification systems.

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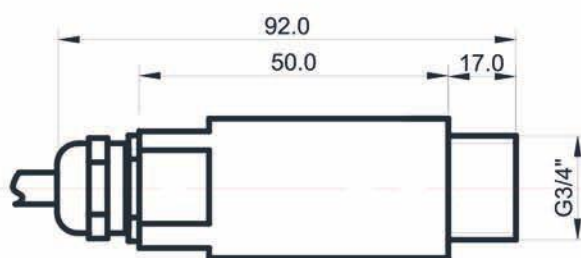
Part No.	Sensor Type	Power Supply	Signal	Output Value	Measuring range	Load Impedance
70005010	HS5-U24	24V DC	voltage output	0~5V	250mW/cm ²	>1KΩ
70005011	HS5-U24	24V DC	voltage output	0~5V	500mW/cm ²	>1KΩ
70005012	HS5-U24	24V DC	voltage output	0~5V	1000mW/cm ²	>1KΩ
70005013	HS5-U24	24V DC	voltage output	0~5V	2000mW/cm ²	>1KΩ

The sensor can be directly connected to the PLC or other equipment via a 2.5 meter long (standard) shielded cable. Thus integration into UV-lamp monitoring, adjustment and control is possible.

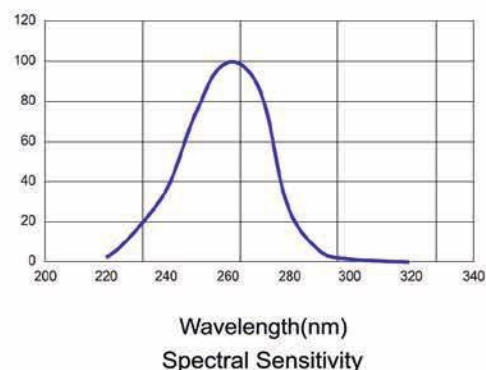
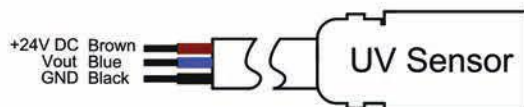
Technical Data

Resolution	0.01mW/cm ²
Weight:	450g
Operating temp.:	0~60°C
Storage temp.:	-10~70°C
Humidity:	<80%
Body:	Stainless steel 316L
Max. pressure:	10bar
Cable:	Length 2.5m(longer on request)

Dimensions



Wiring Diagram



The waterproof UVC sensor serves as robust, long-time stable measuring head for the precise measurement of UVC irradiances in UV water disinfection systems and UV Air purification systems.

A superior long-time stability and corrosion resistance is achieved by the selection of suitable materials.



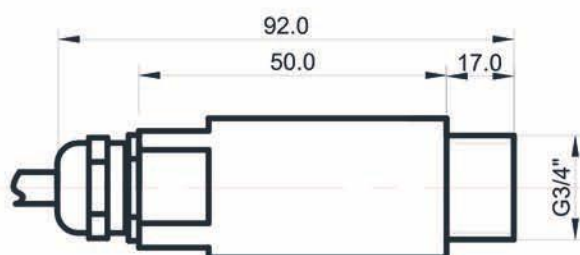
Part No.	Sensor Type	Power Supply	Signal	Output Value	Measuring range	Load Impedance
70005020	HS5-I	12V / 24V DC	current output	4~20mA	250mW/cm ²	>1KΩ
70005021	HS5-I	12V / 24V DC	current output	4~20mA	500mW/cm ²	>1KΩ
70005022	HS5-I	12V / 24V DC	current output	4~20mA	1000mW/cm ²	>1KΩ
70005023	HS5-I	12V / 24V DC	current output	4~20mA	2000mW/cm ²	>1KΩ

The sensor can be directly connected to the PLC or other equipment via a 2.5 meter long (standard) shielded cable. Thus integration into UV-lamp monitoring, adjustment and control is possible.

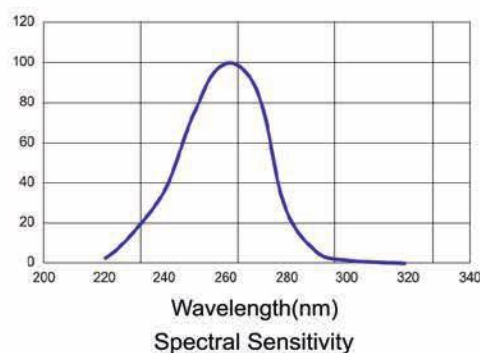
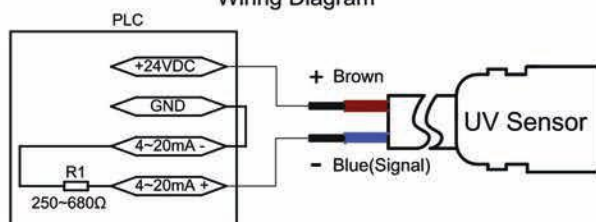
Technical Data

Resolution	0.01mW/cm ²
Weight:	450g
Operating temp.:	0~60°C
Storage temp.:	-10~70°C
Humidity:	<80%
Body:	Stainless steel 316L
Max. pressure:	10bar
Cable:	Length 2.5m(longer on request)

Dimensions



Wiring Diagram



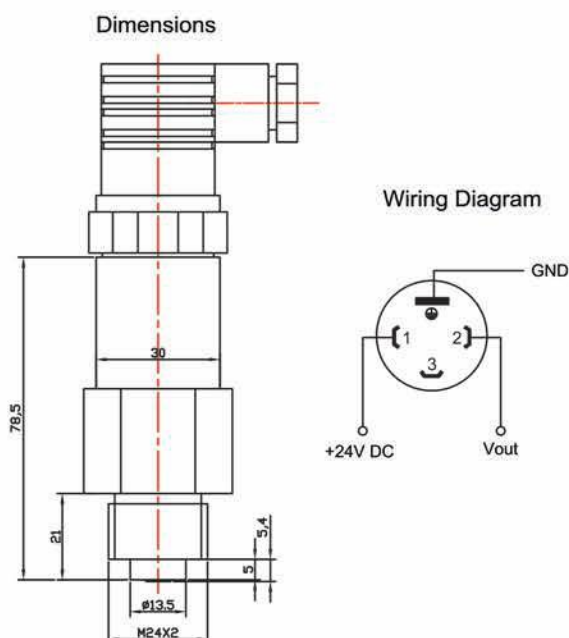
The waterproof UVC sensor serves as robust, long-time stable measuring head for the precise measurement of UVC irradiances in UV water disinfection systems and UV Air purification systems.

A superior long-time stability and corrosion resistance is achieved by the selection of suitable materials.



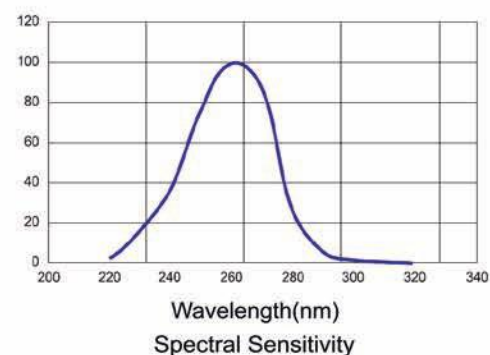
Part No.	Sensor Type	Power Supply	Signal	Output Value	Measuring range	Load Impedance
70005030	HS5-U24ZY	24V DC	voltage output	0~5V	250mW/cm ²	>1KΩ
70005031	HS5-U24ZY	24V DC	voltage output	0~5V	500mW/cm²	>1KΩ
70005032	HS5-U24ZY	24V DC	voltage output	0~5V	1000mW/cm²	>1KΩ
70005033	HS5-U24ZY	24V DC	voltage output	0~5V	2000mW/cm²	>1KΩ

The sensor can be directly connected to the PLC or other equipment via a 2.5 meter long (standard) shielded cable. Thus integration into UV-lamp monitoring, adjustment and control is possible.



Technical Data

Resolution	0.01mW/cm ²
Weight:	360g
Operating temp.:	0~60°C
Storage temp.:	-10~70°C
Humidity:	<80%
Body:	Stainless steel 316L
Max. pressure:	10bar
Cable:	Length 2.5m(longer on request)



The waterproof UVC sensor serves as robust, long-time stable measuring head for the precise measurement of UVC irradiances in UV water disinfection systems and UV Air purification systems.

A superior long-time stability and corrosion resistance is achieved by the selection of suitable materials.

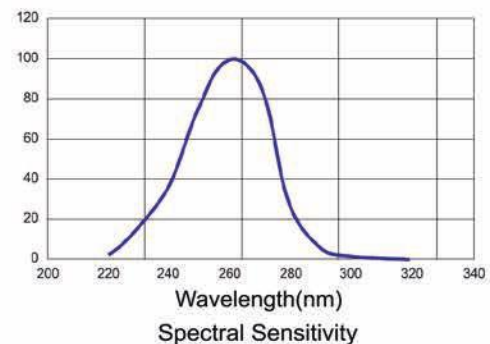
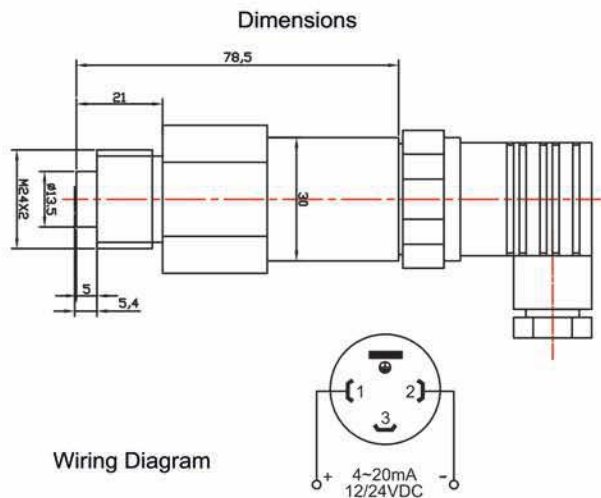


Part No.	Sensor Type	Power Supply	Signal	Output Value	Measuring range	Load Impedance
70005002	HS5-IZY	12V / 24V DC	current output	4~20mA	250mW/cm ²	>1KΩ
70005003	HS5-IZY	12V / 24V DC	current output	4~20mA	500mW/cm ²	>1KΩ
70005004	HS5-IZY	12V / 24V DC	current output	4~20mA	1000mW/cm ²	>1KΩ
70005005	HS5-IZY	12V / 24V DC	current output	4~20mA	2000mW/cm ²	>1KΩ

The sensor can be directly connected to the PLC or other equipment via a 2.5 meter long (standard) shielded cable. Thus integration into UV-lamp monitoring, adjustment and control is possible.

Technical Data

Resolution	0.01mW/cm ²
Weight:	360g
Operating temp.:	0~60°C
Storage temp.:	-10~70°C
Humidity:	<80%
Body:	Stainless steel 316L
Max. pressure:	10bar
Cable:	Length 2.5m(longer on request)



The waterproof UVC sensor serves as robust, long-time stable measuring head for the precise measurement of UVC irradiances in UV water disinfection systems and UV Air purification systems.

A superior long-time stability and corrosion resistance is achieved by the selection of suitable materials.



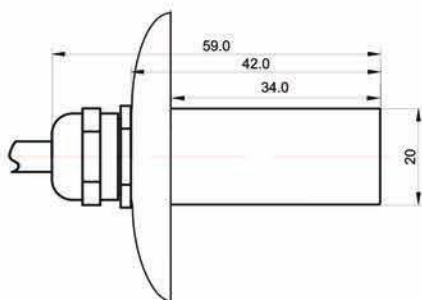
Part No.	Sensor Type	Power Supply	Signal	Output Value	Measuring range	Load Impedance
70007001	HS7-U	5V DC	voltage output	0~5V	20mW/cm ²	>1KΩ
70007002	HS7-U	5V DC	voltage output	0~5V	50mW/cm²	>1KΩ

The sensor can be directly connected to the UV-Monitor HM-1, HM-2, HM-3, HM-4 or HM-5 via a 2.5 meter long (standard) shielded cable. Thus integration into UV-lamp monitoring, adjustment and control is possible.

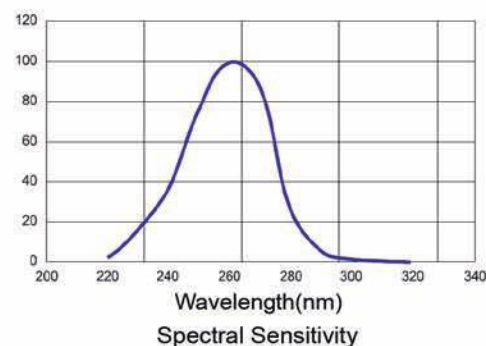
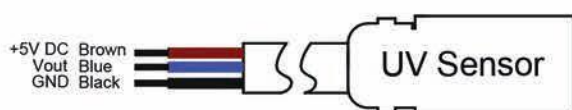
Technical Data

Resolution	0.01mW/cm ²
Weight:	240g
Operating temp.:	0~60°C
Storage temp.:	-10~70°C
Humidity:	<80%
Body:	Stainless steel 316L
Max. pressure:	10bar
Cable:	Length 2.5m(longer on request)

Dimensions



Wiring Diagram



The waterproof UVC sensor serves as robust, long-time stable measuring head for the precise measurement of UVC irradiances in UV water disinfection systems and UV Air purification systems.

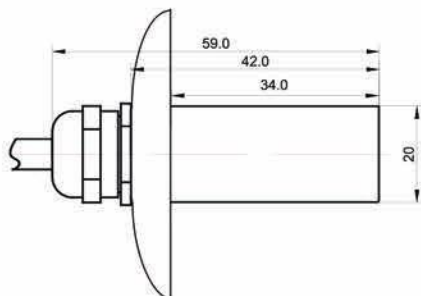
A superior long-time stability and corrosion resistance is achieved by the selection of suitable materials.



Part No.	Sensor Type	Power Supply	Signal	Output Value	Measuring range	Load Impedance
70007011	HS7-U24	24V DC	voltage output	0~5V	20mW/cm ²	>1KΩ
70007012	HS7-U24	24V DC	voltage output	0~5V	50mW/cm²	>1KΩ

The sensor can be directly connected to the PLC or other equipment via a 2.5 meter long (standard) shielded cable. Thus integration into UV-lamp monitoring, adjustment and control is possible.

Dimensions

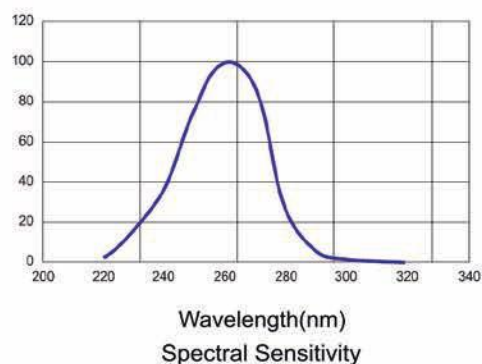


Wiring Diagram



Technical Data

Resolution	0.01mW/cm ²
Weight:	180g
Operating temp.:	0~60°C
Storage temp.:	-10~70°C
Humidity:	<80%
Body:	Stainless steel 316L
Max. pressure:	10bar
Cable:	Length 2.5m(longer on request)



The waterproof UVC sensor serves as robust, long-time stable measuring head for the precise measurement of UVC irradiances in UV water disinfection systems and UV Air purification systems.

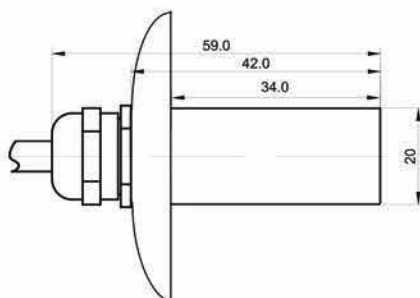
A superior long-time stability and corrosion resistance is achieved by the selection of suitable materials.



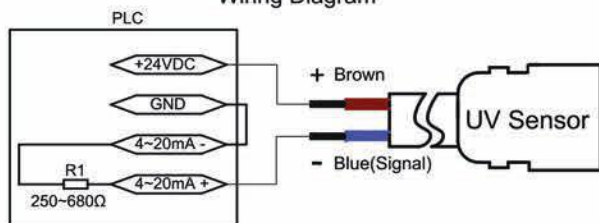
Part No.	Sensor Type	Power Supply	Signal	Output Value	Measuring range	Load Impedance
70007021	HS7-I	12V / 24V DC	current output	4~20mA	20mW/cm ²	>1KΩ
70007022	HS7-I	12V / 24V DC	current output	4~20mA	50mW/cm²	>1KΩ

The sensor can be directly connected to the PLC or other equipment via a 2.5 meter long (standard) shielded cable. Thus integration into UV-lamp monitoring, adjustment and control is possible.

Dimensions

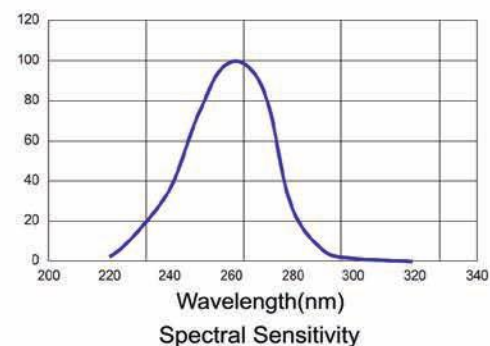


Wiring Diagram



Technical Data

Resolution	0.01mW/cm ²
Weight:	240g
Operating temp.:	0~60°C
Storage temp.:	-10~70°C
Humidity:	<80%
Body:	Stainless steel 316L
Max. pressure:	10bar
Cable:	Length 2.5m(longer on request)



The UVC sensor serves as robust, long-time stable measuring head for the precise measurement of UVC irradiances in UV water disinfection systems and UV Air purification systems.

A superior long-time stability and corrosion resistance is achieved by the selection of suitable materials.



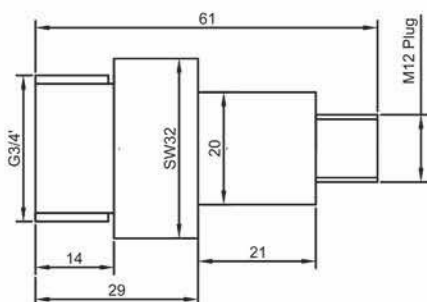
Part No.	Sensor Type	Power Supply	Signal	Output Value	Measuring range	Load Impedance
70008021	HS8-U	5V	voltage output	0~5V	500mW/cm ²	>1KΩ
70008022	HS8-U	5V	voltage output	0~5V	1000mW/cm²	>1KΩ

The sensor can be directly connected to the PLC or other equipment via a 2.5 meter long (standard) shielded cable. Thus integration into UV-lamp monitoring, adjustment and control is possible.

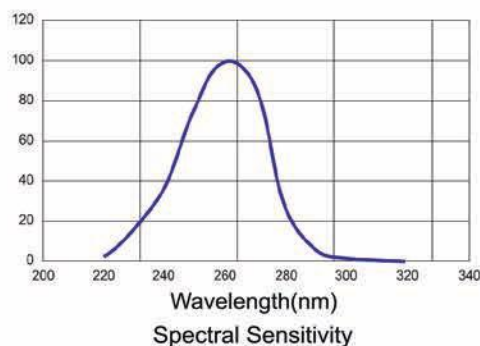
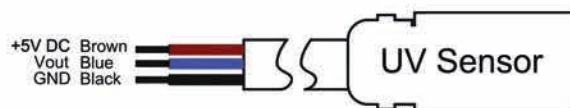
Technical Data

Resolution	0.01mW/cm ²
Weight:	260g
Operating temp.:	0~60°C
Storage temp.:	-10~70°C
Humidity:	<80%
Body:	Stainless steel 316L
Max. pressure:	10bar
Cable:	Length 2.5m(longer on request)

Dimensions



Wiring Diagram



The UVC sensor serves as robust, long-time stable measuring head for the precise measurement of UVC irradiances in UV water disinfection systems and UV Air purification systems.

A superior long-time stability and corrosion resistance is achieved by the selection of suitable materials.

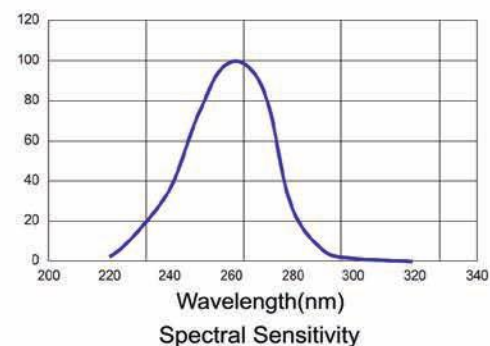
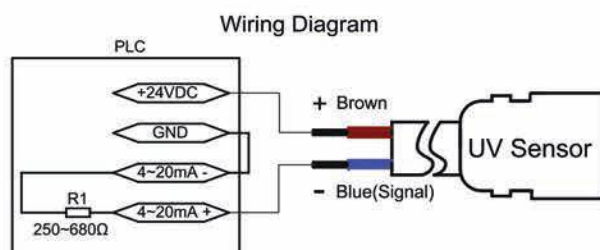
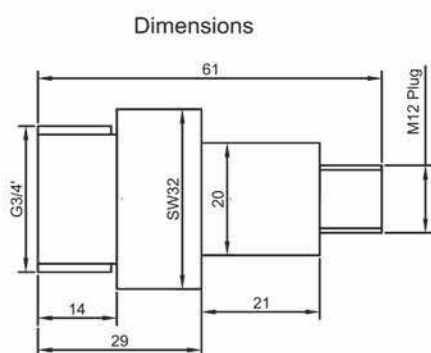


Part No.	Sensor Type	Power Supply	Signal	Output Value	Measuring range	Load Impedance
70008011	HS8-I	12V / 24V DC	current output	4~20mA	500mW/cm ²	>1KΩ
70008012	HS8-I	12V / 24V DC	current output	4~20mA	1000mW/cm²	>1KΩ

The sensor can be directly connected to the PLC or other equipment via a 2.5 meter long (standard) shielded cable. Thus integration into UV-lamp monitoring, adjustment and control is possible.

Technical Data

Resolution	0.01mW/cm ²
Weight:	260g
Operating temp.:	0~60°C
Storage temp.:	-10~70°C
Humidity:	<80%
Body:	Stainless steel 316L
Max. pressure:	10bar
Cable:	Length 2.5m(longer on request)



The UVC sensor serves as robust, long-time stable measuring head for the precise measurement of UVC irradiances in UV water disinfection systems and UV Air purification systems.

A superior long-time stability and corrosion resistance is achieved by the selection of suitable materials.



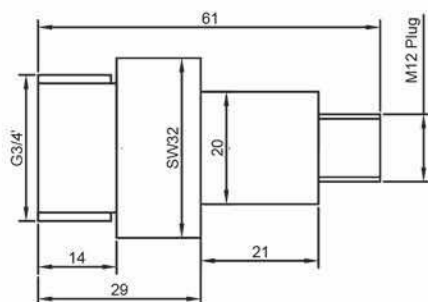
Part No.	Sensor Type	Power Supply	Signal	Output Value	Measuring range	Load Impedance
70008031	HS8-U24	24V	voltage output	0~5V	500mW/cm ²	>1KΩ
70008032	HS8-U24	24V	voltage output	0~5V	1000mW/cm ²	>1KΩ
70008033	HS8-U24	24V	voltage output	0~5V	2000mW/cm ²	>1KΩ

The sensor can be directly connected to the PLC or other equipment via a 2.5 meter long (standard) shielded cable. Thus integration into UV-lamp monitoring, adjustment and control is possible.

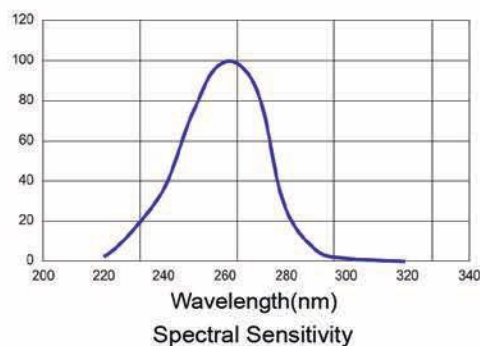
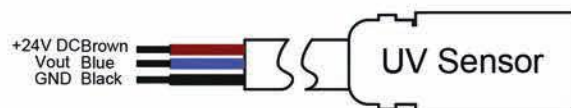
Technical Data

Resolution	0.01mW/cm ²
Weight:	260g
Operating temp.:	0~60°C
Storage temp.:	-10~70°C
Humidity:	<80%
Body:	Stainless steel 316L
Max. pressure:	10bar
Cable:	Length 2.5m(longer on request)

Dimensions



Wiring Diagram



The UVC sensor serves as robust, long-time stable measuring head for the precise measurement of UVC irradiances in UV water disinfection systems and UV Air purification systems.

A superior long-time stability and corrosion resistance is achieved by the selection of suitable materials.

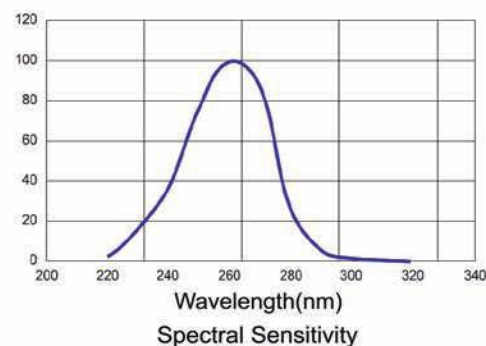
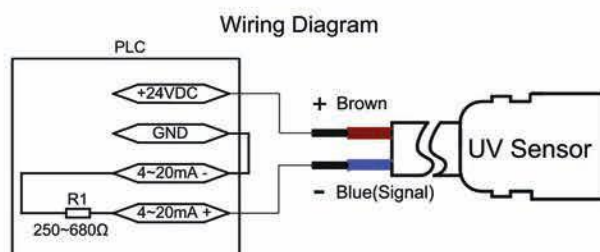
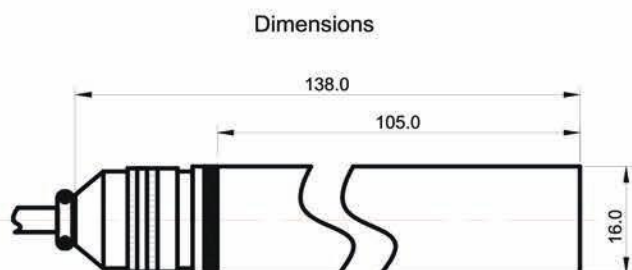


Part No.	Sensor Type	Power Supply	Signal	Output Value	Measuring range	Load Impedance
70009001	HS9-I	12V / 24V DC	current output	4~20mA	20mW/cm ²	>1KΩ
70009002	HS9-I	12V / 24V DC	current output	4~20mA	50mW/cm²	>1KΩ

The sensor can be directly connected to the PLC or other equipment via a 2.5 meter long (standard) shielded cable. Thus integration into UV-lamp monitoring, adjustment and control is possible.

Technical Data

Resolution	0.01mW/cm ²
Weight:	260g
Operating temp.:	0~60°C
Storage temp.:	-10~70°C
Humidity:	<80%
Body:	Stainless steel 316L
Max. pressure:	10bar
Cable:	Length 2.5m(longer on request)



The UVC sensor serves as robust, long-time stable measuring head for the precise measurement of UVC irradiances in UV water disinfection systems and UV Air purification systems.

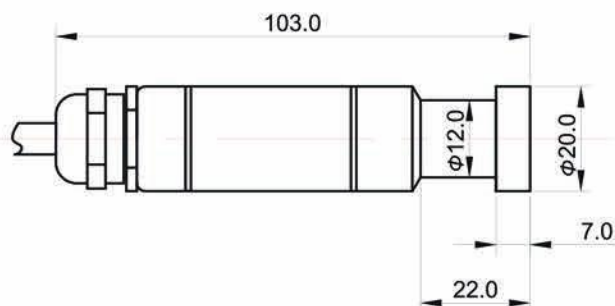
A superior long-time stability and corrosion resistance is achieved by the selection of suitable materials.



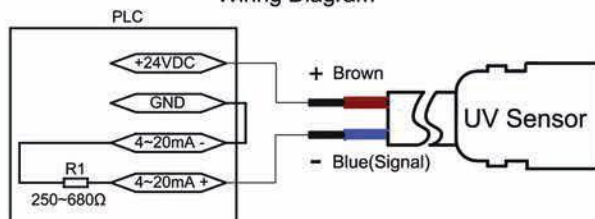
Part No.	Sensor Type	Power Supply	Signal	Output Value	Measuring range	Load Impedance
70010001	HS10-I	12V / 24V DC	current output	4~20mA	100mW/cm ²	>1KΩ

The sensor can be directly connected to the PLC or other equipment via a 2.5 meter long (standard) shielded cable. Thus integration into UV-lamp monitoring, adjustment and control is possible.

Dimensions

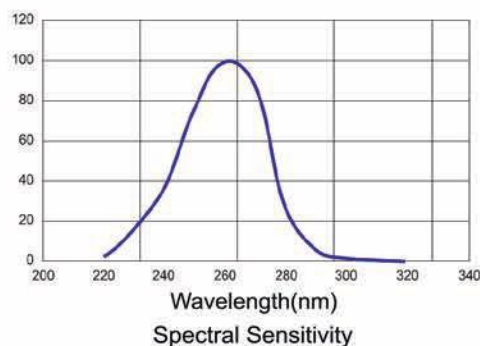


Wiring Diagram



Technical Data

Resolution	0.01mW/cm ²
Weight:	420g
Operating temp.:	0~60°C
Storage temp.:	-10~70°C
Humidity:	<80%
Body:	Stainless steel 316L
Max. pressure:	0 bar
Cable:	Length 2.5m(longer on request)



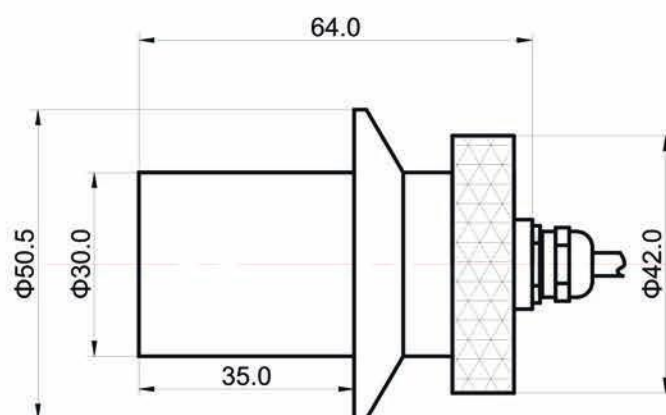
The waterproof UVC sensor serves as robust, long-time stable measuring head for the precise measurement of UVC irradiances in UV water disinfection systems and UV Air purification systems.

A superior long-time stability and corrosion resistance is achieved by the selection of suitable materials.

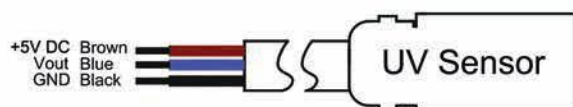


Part No.	Sensor Type	Power Supply	Signal	Output Value	Measuring range	Load Impedance
70011001	HS11-U	5V DC	voltage output	0~5V	50mW/cm ²	>1KΩ
70011002	HS11-U	5V DC	voltage output	0~5V	250mW/cm ²	>1KΩ
70011003	HS11-U	5V DC	voltage output	0~5V	500mW/cm ²	>1KΩ
70011004	HS11-U	5V DC	voltage output	0~5V	1000mW/cm ²	>1KΩ

The sensor can be directly connected to the PLC or other equipment via a 2.5 meter long (standard) shielded cable. Thus integration into UV-lamp monitoring, adjustment and control is possible.

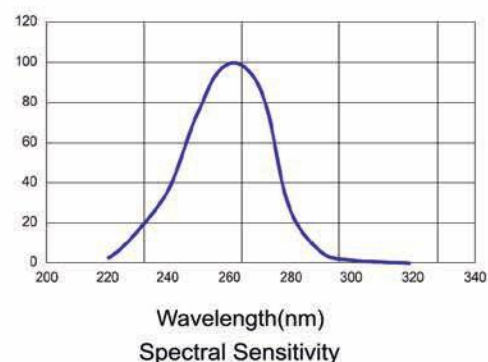


Wiring Diagram



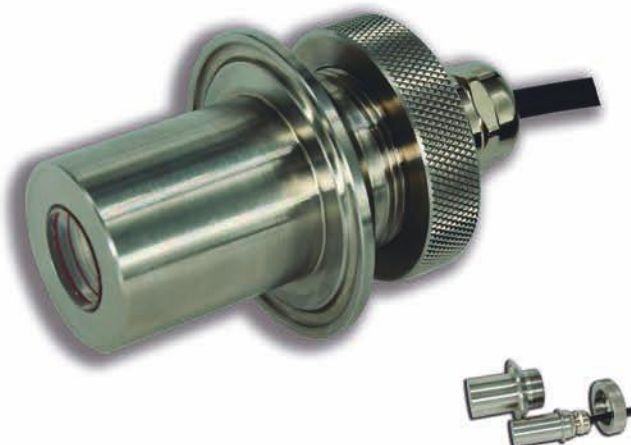
Technical Data

Resolution	0.01mW/cm ²
Weight:	520.0g
Operating temp.:	0~60°C
Storage temp.:	-10~70°C
Humidity:	<80%
Body:	Stainless steel 316L
Max. pressure:	10bar
Cable:	Length 2.5m(longer on request)



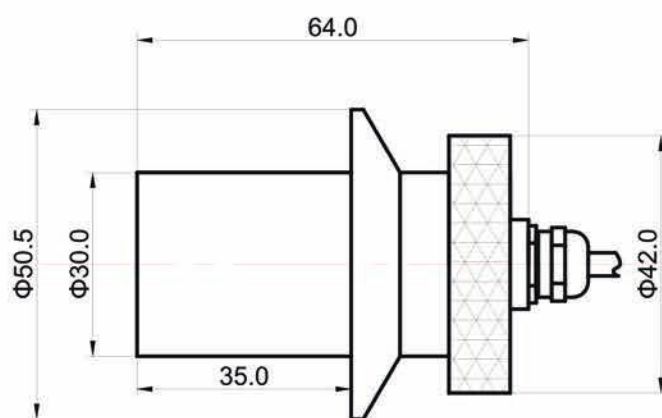
The waterproof UVC sensor serves as robust, long-time stable measuring head for the precise measurement of UVC irradiances in UV water disinfection systems and UV Air purification systems.

A superior long-time stability and corrosion resistance is achieved by the selection of suitable materials.

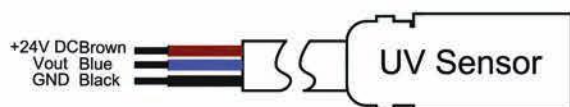


Part No.	Sensor Type	Power Supply	Signal	Output Value	Measuring range	Load Impedance
70011011	HS11-U24	12/24V DC	voltage output	0~5V	50mW/cm ²	>1KΩ
70011012	HS11-U24	12/24V DC	voltage output	0~5V	250mW/cm²	>1KΩ
70011013	HS11-U24	12/24V DC	voltage output	0~5V	500mW/cm²	>1KΩ
70011014	HS11-U24	12/24V DC	voltage output	0~5V	1000mW/cm²	>1KΩ

The sensor can be directly connected to the PLC or other equipment via a 2.5 meter long (standard) shielded cable. Thus integration into UV-lamp monitoring, adjustment and control is possible.

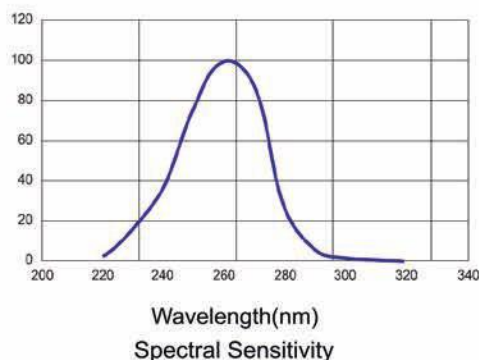


Wiring Diagram



Technical Data

Resolution	0.01mW/cm ²
Weight:	520.0g
Operating temp.:	0~60°C
Storage temp.:	-10~70°C
Humidity:	<80%
Body:	Stainless steel 316L
Max. pressure:	10bar
Cable:	Length 2.5m(longer on request)



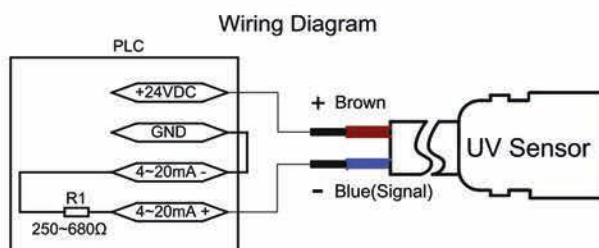
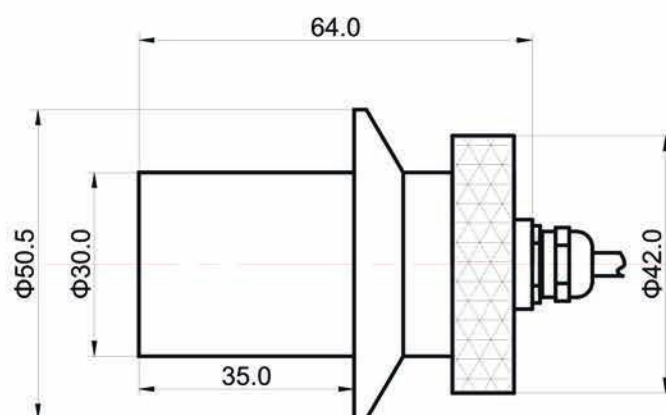
The waterproof UVC sensor serves as robust, long-time stable measuring head for the precise measurement of UVC irradiances in UV water disinfection systems and UV Air purification systems.

A superior long-time stability and corrosion resistance is achieved by the selection of suitable materials.



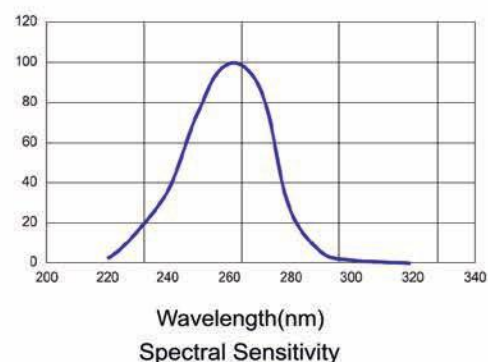
Part No.	Sensor Type	Power Supply	Signal	Output Value	Measuring range	Load Impedance
70011021	HS11-I	12/24V DC	current output	4~20mA	50mW/cm ²	>1KΩ
70011022	HS11-I	12/24V DC	current output	4~20mA	250mW/cm ²	>1KΩ
70011023	HS11-I	12/24V DC	current output	4~20mA	500mW/cm ²	>1KΩ
70011024	HS11-I	12/24V DC	current output	4~20mA	1000mW/cm ²	>1KΩ

The sensor can be directly connected to the PLC or other equipment via a 2.5 meter long (standard) shielded cable. Thus integration into UV-lamp monitoring, adjustment and control is possible.



Technical Data

Resolution	0.01mW/cm ²
Weight:	520.0g
Operating temp.:	0~60°C
Storage temp.:	-10~70°C
Humidity:	<80%
Body:	Stainless steel 316L
Max. pressure:	10bar
Cable:	Length 2.5m(longer on request)



The UVC sensor serves as robust, long-time stable measuring head for the precise measurement of UVC irradiances in UV water disinfection systems and UV Air purification systems.

A superior long-time stability and corrosion resistance is achieved by the selection of suitable materials.

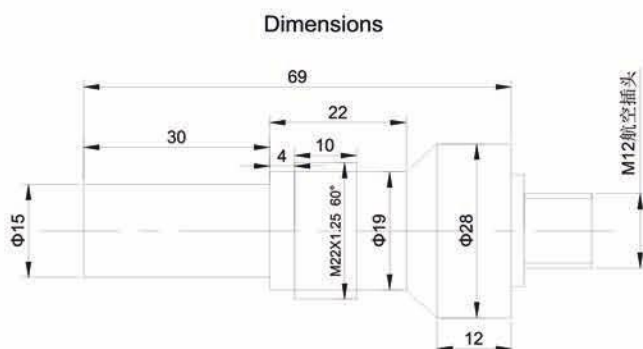


Part No.	Sensor Type	Power Supply	Signal	Output Value	Measuring range	Load Impedance
70012011	HS12-U24	12V / 24V DC	current output	4~20mA	50mW/cm ²	>1KΩ
70012012	HS12-U24	12V / 24V DC	current output	4~20mA	100mW/cm²	>1KΩ

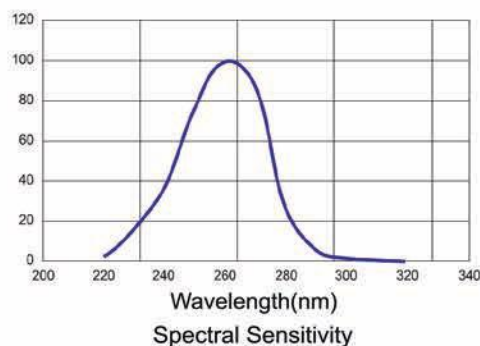
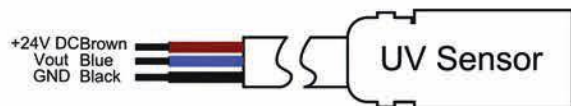
The sensor can be directly connected to the PLC or other equipment via a 2.5 meter long (standard) shielded cable. Thus integration into UV-lamp monitoring, adjustment and control is possible.

Technical Data

Resolution	0.01mW/cm ²
Weight:	260g
Operating temp.:	0~60°C
Storage temp.:	-10~70°C
Humidity:	<80%
Body:	Stainless steel 316L
Max. pressure:	10bar
Cable:	Length 2.5m(longer on request)



Wiring Diagram



The UVC sensor serves as robust, long-time stable measuring head for the precise measurement of UVC irradiances in UV water disinfection systems and UV Air purification systems.

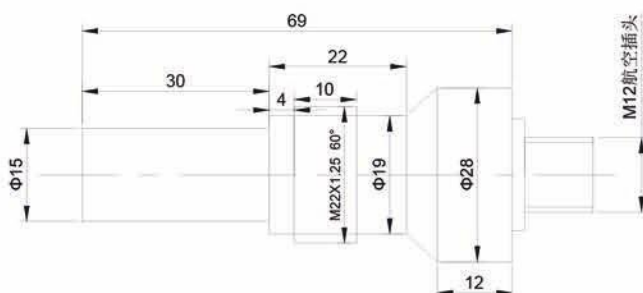
A superior long-time stability and corrosion resistance is achieved by the selection of suitable materials.



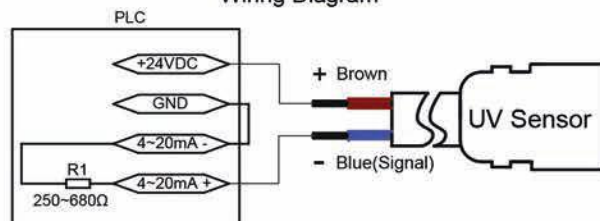
Part No.	Sensor Type	Power Supply	Signal	Output Value	Measuring range	Load Impedance
70012021	HS12-I	12V / 24V DC	current output	4~20mA	500mW/cm ²	>1KΩ
70012022	HS12-I	12V / 24V DC	current output	4~20mA	1000mW/cm²	>1KΩ

The sensor can be directly connected to the PLC or other equipment via a 2.5 meter long (standard) shielded cable. Thus integration into UV-lamp monitoring, adjustment and control is possible.

Dimensions

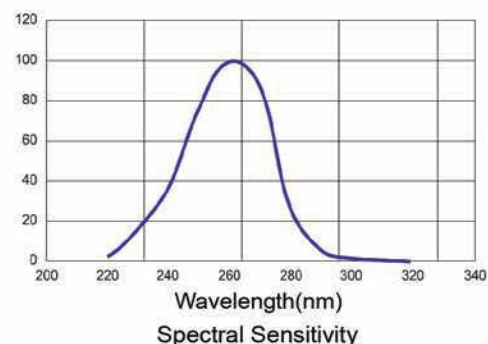


Wiring Diagram



Technical Data

Resolution	0.01mW/cm ²
Weight:	260g
Operating temp.:	0~60°C
Storage temp.:	-10~70°C
Humidity:	<80%
Body:	Stainless steel 316L
Max. pressure:	10bar
Cable:	Length 2.5m(longer on request)



The waterproof UVC sensor serves as robust, long-time stable measuring head for the precise measurement of UVC irradiances in UV water disinfection systems and UV Air purification systems.

A superior long-time stability and corrosion resistance is achieved by the selection of suitable materials.

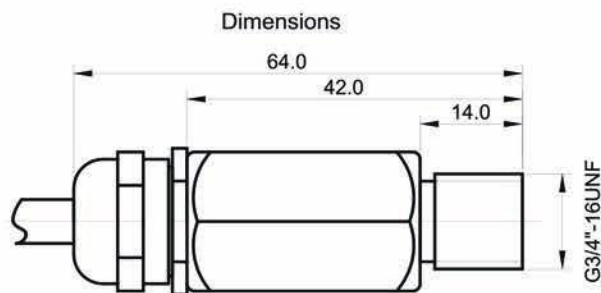


Part No.	Sensor Type	Power Supply	Signal	Output Value	Measuring range	Load Impedance
70015001	HS15-U	5V DC	voltage output	0~5V	20mW/cm ²	>1KΩ
70015002	HS15-U	5V DC	voltage output	0~5V	50mW/cm²	>1KΩ

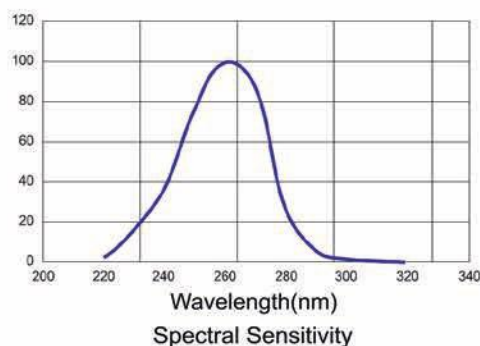
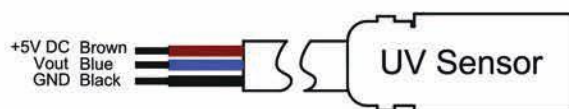
The sensor can be directly connected to the UV-Monitor HM-1, HM-2, HM-3, HM-4 or HM-5 via a 2.5 meter long (standard) shielded cable. Thus integration into UV-lamp monitoring, adjustment and control is possible.

Technical Data

Resolution	0.01mW/cm ²
Weight:	180g
Operating temp.:	0~60°C
Storage temp.:	-10~70°C
Humidity:	<80%
Body:	Stainless steel 316L
Max. pressure:	10bar
Cable:	Length 2.5m(longer on request)



Wiring Diagram



The waterproof UVC sensor serves as robust, long-time stable measuring head for the precise measurement of UVC irradiances in UV water disinfection systems and UV Air purification systems.

A superior long-time stability and corrosion resistance is achieved by the selection of suitable materials.

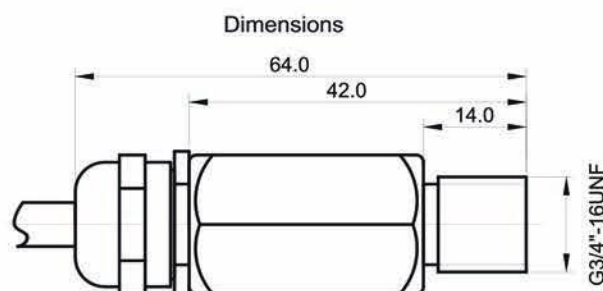


Part No.	Sensor Type	Power Supply	Signal	Output Value	Measuring range	Load Impedance
70015011	HS15-U24	12/24V DC	voltage output	0~5V	20mW/cm ²	>1KΩ
70015012	HS15-U24	12/24V DC	voltage output	0~5V	50mW/cm²	>1KΩ

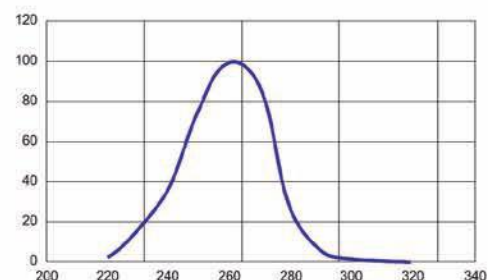
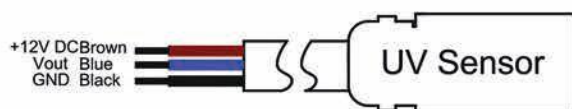
The sensor can be directly connected to the UV-Monitor HM-1, HM-2, HM-3, HM-4 or HM-5 via a 2.5 meter long (standard) shielded cable. Thus integration into UV-lamp monitoring, adjustment and control is possible.

Technical Data

Resolution	0.01mW/cm ²
Weight:	180g
Operating temp.:	0~60°C
Storage temp.:	-10~70°C
Humidity:	<80%
Body:	Stainless steel 316L
Max. pressure:	10bar
Cable:	Length 2.5m(longer on request)
Power:	<0.5W
Max Length (between sensor and Monitor):	10.0m



Wiring Diagram



Wavelength(nm)
Spectral Sensitivity

The waterproof UVC sensor serves as robust, long-time stable measuring head for the precise measurement of UVC irradiances in UV water disinfection systems and UV Air purification systems.

A superior long-time stability and corrosion resistance is achieved by the selection of suitable materials.

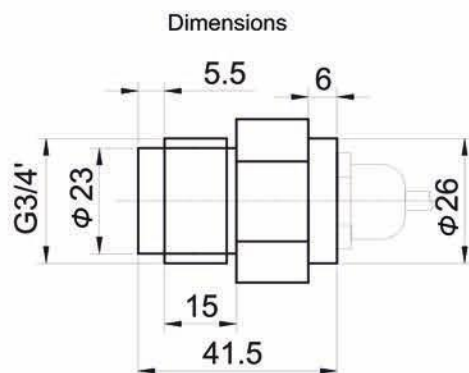


Part No.	Sensor Type	Power Supply	Signal	Output Value	Measuring range	Load Impedance
70017001	HS17-U	5V DC	voltage output	0~5V	20mW/cm ²	>1KΩ
70017002	HS17-U	5V DC	voltage output	0~5V	50mW/cm²	>1KΩ

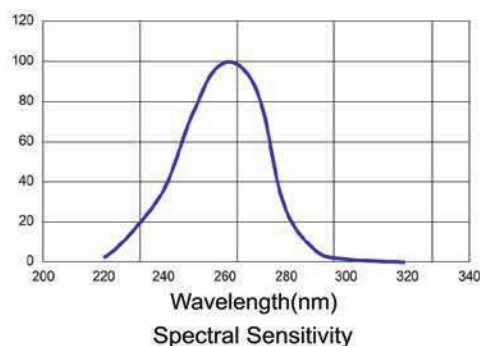
The sensor can be directly connected to the UV-Monitor HM-1, HM-2, HM-3, HM-4 or HM-5 via a 2.5 meter long (standard) shielded cable. Thus integration into UV-lamp monitoring, adjustment and control is possible.

Technical Data

Resolution	0.01mW/cm ²
Weight:	230g
Operating temp.:	0~60°C
Storage temp.:	-10~70°C
Humidity:	<80%
Body:	Stainless steel 316L
Max. pressure:	10bar
Cable:	Length 2.5m(longer on request)



Wiring Diagram



The UVC sensor serves as robust, long-time stable measuring head for the precise measurement of UVC irradiances in UV water disinfection systems and UV Air purification systems.

A superior long-time stability and corrosion resistance is achieved by the selection of suitable materials.



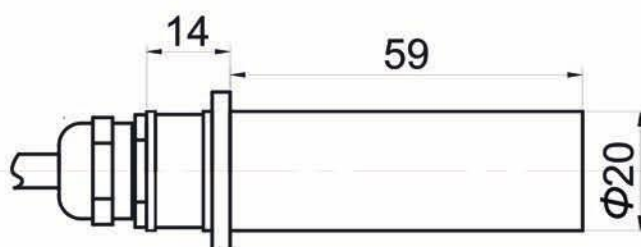
Part No.	Sensor Type	Power Supply	Signal	Output Value	Measuring range	Load Impedance
700018021	HS18-I	12V / 24V DC	current output	4~20mA	100W/m ²	>1KΩ
700018021	HS18-I	12V / 24V DC	current output	4~20mA	200W/m²	>1KΩ

The sensor can be directly connected to the PLC or other equipment via a 2.5 meter long (standard) shielded cable. Thus integration into UV-lamp monitoring, adjustment and control is possible.

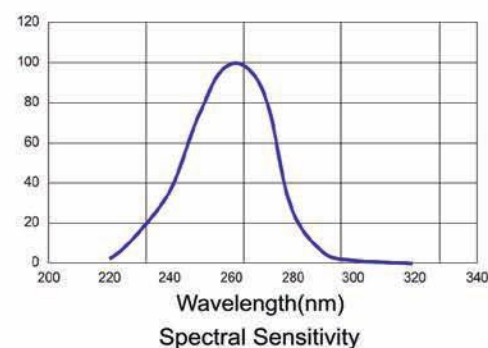
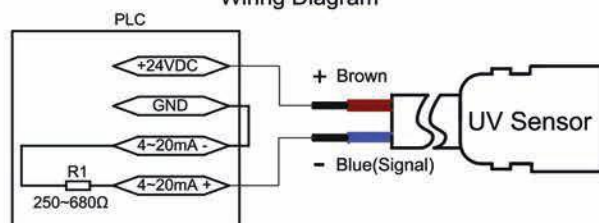
Technical Data

Resolution	0.01mW/cm ²
Weight:	260g
Operating temp.:	0~60°C
Storage temp.:	-10~70°C
Humidity:	<80%
Body:	Stainless steel 316L
Max. pressure:	10bar
Cable:	Length 2.5m(longer on request)

Dimensions



Wiring Diagram



The UVC sensor serves as robust, long-time stable measuring head for the precise measurement of UVC irradiances in UV water disinfection systems and UV Air purification systems.

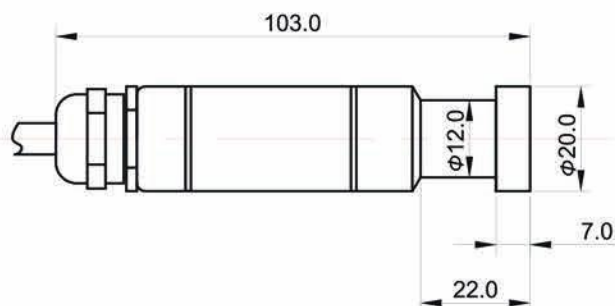
A superior long-time stability and corrosion resistance is achieved by the selection of suitable materials.



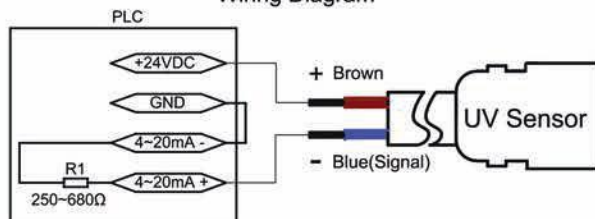
Part No.	Sensor Type	Power Supply	Signal	Output Value	Measuring range	Load Impedance
70020001	HS20-I	12V / 24V DC	current output	4~20mA	100mW/cm ²	>1KΩ

The sensor can be directly connected to the PLC or other equipment via a 2.5 meter long (standard) shielded cable. Thus integration into UV-lamp monitoring, adjustment and control is possible.

Dimensions

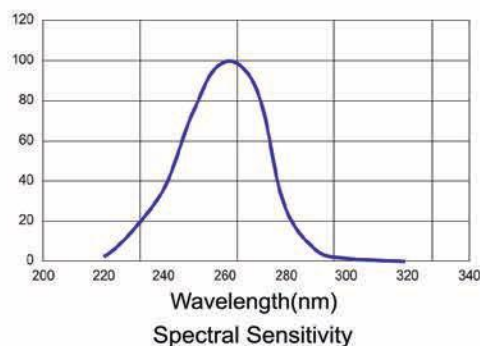


Wiring Diagram



Technical Data

Resolution	0.01mW/cm ²
Weight:	420g
Operating temp.:	0~60°C
Storage temp.:	-10~70°C
Humidity:	<80%
Body:	Stainless steel 316L
Max. pressure:	0 bar
Cable:	Length 2.5m(longer on request)



Monitoring of relative UV-intensity (depending on sensor type) (%).

The mains-driven panel meter HM-1 serves with the respective sensors for a continuous radio-metric control of lamps, especially UV radiators. Different UV and visible spectral ranges can be controlled with the corresponding sensors.



HM-1

relative % and timer

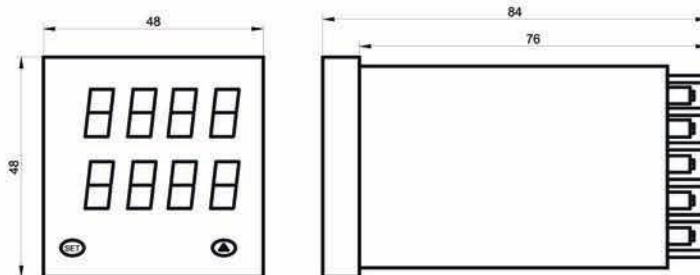
Technical Data

Measuring range:	0~20mW/cm ²
Resolution:	+/- 0.2%
Display:	relative % and timer
Weight:	320g
Operating temp.:	0~50°C
Storage temp.:	-10~70°C
Humidity:	<80%
Supply voltage:	85~265VAC 50/60Hz
Dimensions:	48X48X84mm
Open Dimensions:	45X45mm
Sensor signal input:	0~5V DC
Relay contact for alarm:	1 X time-over and 1 X UV low contact

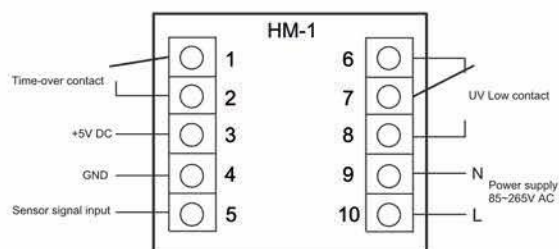
Part number: 71001001

0~50mW Part number: 71001003

Dimensions



Wiring Diagram



Monitoring of relative and absolute UV-intensity (depending on sensor type) .

The mains-driven panel meter HM-2 serves with the respective sensors for a continuous radio-metric control of lamps, especially UV radiators. Different UV and visible spectral ranges can be controlled with the corresponding sensors.



HM-2

absolute value, relative %

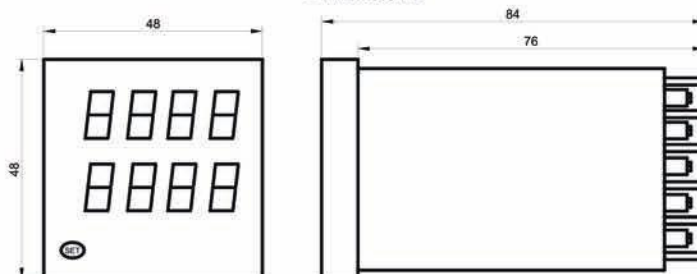
Technical Data

Measuring range:	0~20mW/cm ²
Resolution	+/- 0.2%
Display:	absolute value, relative % and timer
Weight:	320g
Operating temp.:	0~50°C
Storage temp.:	-10~70°C
Humidity:	<80%
Supply voltage:	85~265VAC 50/60Hz
Dimensions:	48X48X84mm
Open Dimensions:	45X45mm
Sensor signal input:	0~5V DC
Relay contact for alarm:	1 X UV low contact

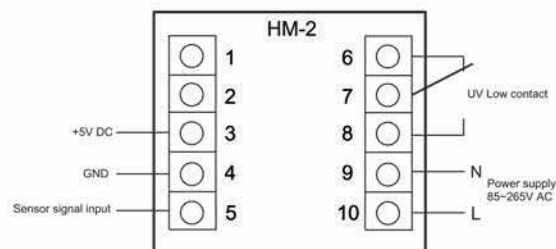
Part number: 71002001

0~50mW Part number: 71002002

Dimensions



Wiring Diagram





UV Monitor for UVC Sensor with Relay Contacts and Status Indication by 16X2 LCD

Monitoring of relative and absolute UV-intensity (depending on sensor type) .

The mains-driven panel meter HM-3 serves with the respective sensors for a continuous radio-metric control of lamps, especially UV radiators. Different UV and visible spectral ranges can be controlled with the corresponding sensors.



HM-3

absolute value, relative % and timer

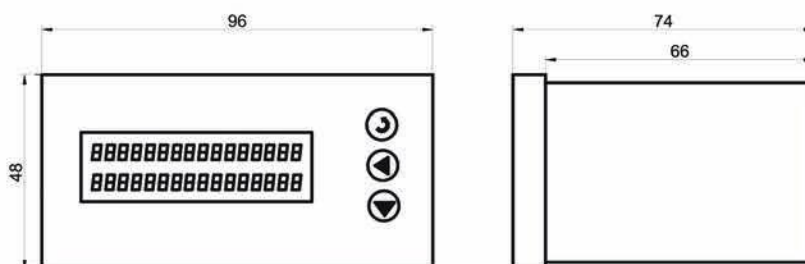
Technical Data

Measuring range: 0~20mW/ 0~20000μW/cm²
 Resolution +/- 0.2%
 Display: absolute value, relative % and timer
 Weight: 420g
 Operating temp.: 0~50°C
 Storage temp.: -10~70°C
 Humidity: <80%
 Supply voltage: 85~265VAC 50/60Hz
 Dimensions: 96X48X74mm
 Open Dimensions: 92X45mm
 Sensor signal input: 0~5V DC
 Signal Output: 1X4~20mA and 1X1~5V DC
 Relay contact for alarm: time-over and UV low contact

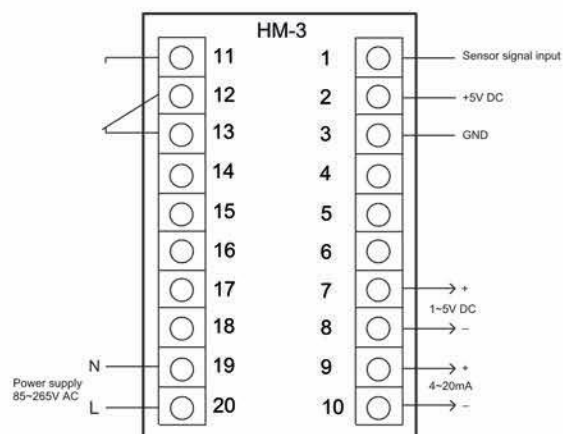
Part number: 71003001

0~50mW Part number: 71003002

Dimensions



Wiring Diagram



Monitoring of relative and absolute UV-intensity (depending on sensor type) .

The mains-driven panel meter HM-8 serves with the respective sensors for a continuous radio-metric control of lamps, especially UV radiators. Different UV and visible spectral ranges can be controlled with the corresponding sensors.



Part number: 71008001

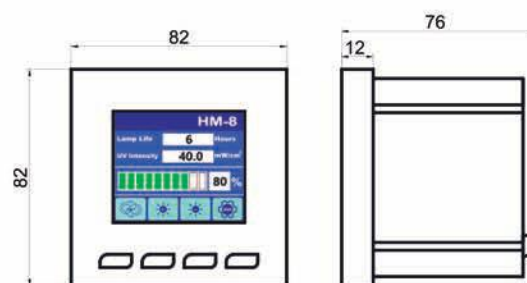
HM-8

absolute value mW/mJ, relative % and timer

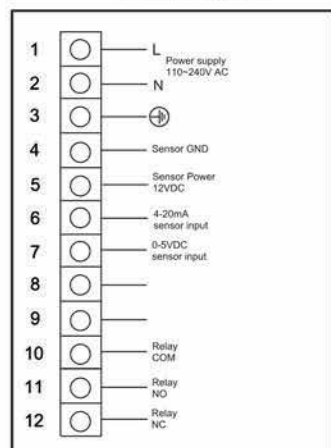
Technical Data

Max.Measuring range:	0~500mW/cm ²
Resolution	+/- 0.2%
Display:	absolute value, relative % and timer
Weight:	222.0g
Operating temp.:	0~50°C
Storage temp.:	-10~70°C
Humidity:	<80%
Supply voltage:	110~240VAC 50/60Hz
Dimensions:	82X82X77mm
Open Dimensions:	76X76mm
Sensor signal input:	0~5V DC / 4-20mA
Relay contact for alarm:	time-over and UV low contact

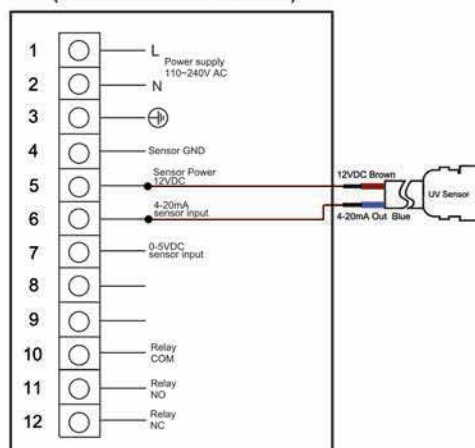
Dimensions



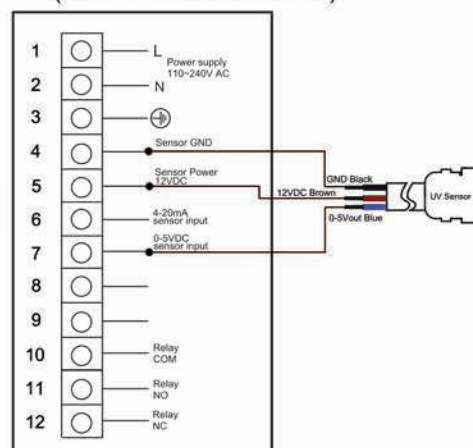
Wiring Diagram



Wiring Diagram (4-20mA Sensor I series)



Wiring Diagram (0-5VDC Sensor U24 series)



UVT TRANSMITTANCE MONITOR FOR THE WATER OF UV TREATMENT SYSTEM

What is UV transmission?

UV-T is a measure of the capability of UV light to penetrate water. When the UV-T is high, close to 100%, the water is very clear and the UV light can penetrate deep into the water. On the other hand, when the UV-T is low, the water is very unclear and the UV light can only penetrate a limited distance into the water.

Clearly, the UV-T of the water to be treated is of utmost importance. To kill or render an organism nonviable, a certain UV dose is required, and the applied UV dose is directly proportional with the UV intensity. Therefore, when the UV-T is low, significantly more UV power is needed to treat the water according to the required discharge standards.



UVT-BX100-254nm

System-Features

UV-C light source provides ultra long life, low running cost, accurate and stable measurements.

Monitoring UV-Transmittance is an important part of UV system control. The Haisen BX-100 is the good UV-T monitor to incorporate a UV-C light-source. This ensures extremely stable readings in all conditions, over an extended lifetime.

The unique, patent-pending design utilizes a single lamp and sensor.

Power Supply: 220~240VAC (99~132VAC)

Wavelength/Pathlength: 254nm/1cm

UVT-10 Range: 10%-100%

Accuracy: +/- 1.0%

Resolution:1%

Temperature Range: 0 - 40 °C

Weight: 2.6Kg

Dimensions: 280X230X120mm

Overview

82~88 Ballasts for Medium UV Lamp

Providing a Comprehensive Solution





HS-EPS1KW

System-Features

- > Maximum input power 2.0KW
- > continuously variable power control
- > service-friendly due to pluggable connections
- > Less space required / reduced footprint
- > remote on / off
- > RS485 control of output range
- > power factor correction included
- > high efficiency
- > low input current distortion
- > opto-isolated control outputs
lamp status / system status

Input

- > 1 phase 220 VAC
- > 50/60Hz
- > 8.0A max.
- > power factor 0.70

Output

- > lamp power 1.0~1.5KW
- > controlled within 1%
- > 0.3K Hz ~2K Hz
- > crest factor <1.6
- > lamp voltage 100~230V
- > lamp current max. 11.0A
- > size 335*90*190mm
- > weight 4.0 Kg





HS-EPS2KW

System-Features

- > 2.0KW maximum power
- > continuously variable power control
- > service-friendly due to pluggable connections
- > Less space required / reduced footprint
- > remote on / off
- > RS485 control of output range
- > power factor correction included
- > high efficiency
- > low input current distortion
- > opto-isolated control outputs
lamp status / system status

Input

- > 1 phase 220 VAC
- > 50/60Hz
- > 9.0A max.
- > power factor 0.99

Output

- > controlled within 1%
- > 0.3K Hz ~2K Hz
- > crest factor <1.6
- > lamp voltage 160~220V
- > lamp current max. 13.0A
- > size 335*90*190mm
- > weight 4.0Kg
- > lamp type: H020C, DQ2023





EPS2KW

System-Features

- > 2.0KW maximum power
- > continuously variable power control
- > service-friendly due to pluggable connections
- > Less space required / reduced footprint
- > remote on / off
- > RS485 control of output range
- > power factor correction included
- > high efficiency
- > low input current distortion
- > opto-isolated control outputs
lamp status / system status

Input

- > 1 phase 220 VAC
- > 50/60Hz
- > 9.0A max.
- > power factor 0.99

Output

- > controlled within 1%
- > 0.3K Hz ~2K Hz
- > crest factor <1.6
- > lamp voltage 160~220V
- > lamp current max. 13.0A
- > size 340*136*173mm
- > weight 6.2Kg
- > lamp type: H020C, DQ2023





HS-EPS3KW

System-Features

- > 3.0KW maximum power
- > continuously variable power control
- > service-friendly due to pluggable connections
- > Less space required / reduced footprint
- > remote on / off
- > RS485 control of output range
- > power factor correction included
- > high efficiency
- > low input current distortion
- > opto-isolated control outputs
lamp status / system status

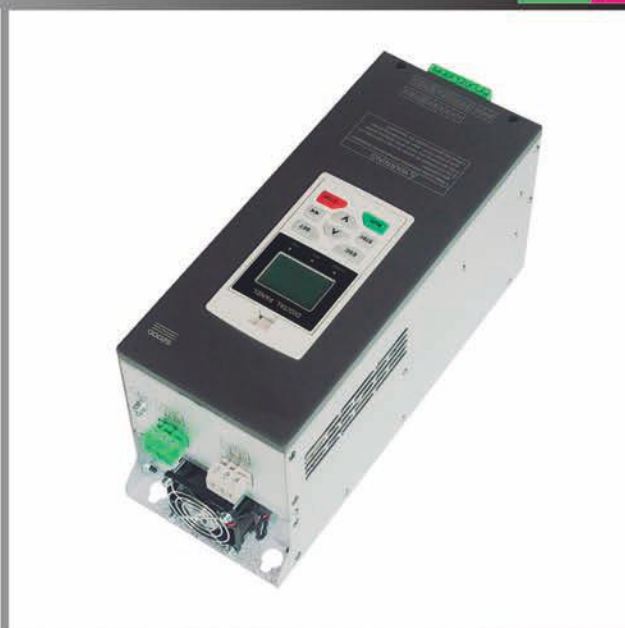
Input

- > 3 phase 380 VAC
- > 50/60Hz
- > 4.6A max.
- > power factor 0.99

Output

- > controlled within 1%
- > 0.3K Hz ~2K Hz
- > crest factor <1.6
- > lamp voltage 300~420V
- > lamp current max. 12.0A
- > size 335*90*190mm
- > weight 6.2Kg
- > lamp type: H030C, DQ3024,DQ3030





EPS3KW

System-Features

- > 3.0KW maximum power
- > continuously variable power control
- > service-friendly due to pluggable connections
- > Less space required / reduced footprint
- > remote on / off
- > RS485 control of output range
- > power factor correction included
- > high efficiency
- > low input current distortion
- > opto-isolated control outputs
- lamp status / system status

Input

- > 3 phase 380 VAC
- > 50/60Hz
- > 4.6A max.
- > power factor 0.99

Output

- > controlled within 1%
- > 0.3K Hz ~2K Hz
- > crest factor <1.6
- > lamp voltage 300~420V
- > lamp current max. 12.0A
- > size 340*136*173mm
- > weight 6.2Kg
- > lamp type: H030C, DQ3024, DQ3030





EPS6KW

System-Features

- > 6.0KW maximum power
- > continuously variable power control
- > service-friendly due to pluggable connections
- > Less space required / reduced footprint
- > remote on / off
- > RS485 control of output range
- > power factor correction included
- > high efficiency
- > low input current distortion
- > opto-isolated control outputs
lamp status / system status

Input

- > 3 phase 380VAC
- > 50/60Hz
- > 9.3A max.
- > power factor 0.99

Output

- > controlled within 1%
- > 8K Hz ~16K Hz
- > crest factor <1.6
- > lamp voltage 400~550V
- > lamp current max. 12.0A
- > size 410*195*205 mm
- > weight 12.0Kg
- > lamp type: Low Voltage Version Lamps





EPS12KW

System-Features

- > 6.0KW maximum power
- > continuously variable power control
- > service-friendly due to pluggable connections
- > Less space required / reduced footprint
- > remote on / off
- > RS485 control of output range
- > power factor correction included
- > high efficiency
- > low input current distortion
- > opto-isolated control outputs
lamp status / system status

Input

- > 3 phase 380VAC
- > 50/60Hz
- > 18.2A max.
- > power factor 0.99

Output

- > controlled within 1%
- > 8K Hz ~16K Hz
- > crest factor <1.6
- > lamp voltage 1200~1700V
- > lamp current max. 12.0A
- > size 530*255*250mm
- > weight 23.0Kg
- > lamp type: 12KW(1200-1700V)

