

## DESCRIPTION

The ignition unit type iu-0525 is used for igniting short-arc lamps with a maximum lamp current of 5.5 A, igniting voltage of 25 kV and open-circuit voltage of 55 V in combination with a suitable ballast. Further parameters of the ignition unit are:

- automatic limitation of the ignition time (approx. 15 s)
- no additional supply voltage required for igniting the lamp

The ignition unit must only be used together with a master device, which ensures that the operating conditions, the applicable safety requirements and the EMC requirements are complied with.

*Any other use is not intended.*

## INSTALLATION CONDITIONS

### *Danger!:*

The ignition unit generates high voltage (of up to 30 kV) at the output.

Internally, the ignition unit produces voltages up to 1 kV. That voltage level is maintained by capacitors for a longer time after the operating voltage is switched off. Therefore, the high voltage capacitors of the ignition unit must be discharged before any work is carried out at or near the ignition unit.

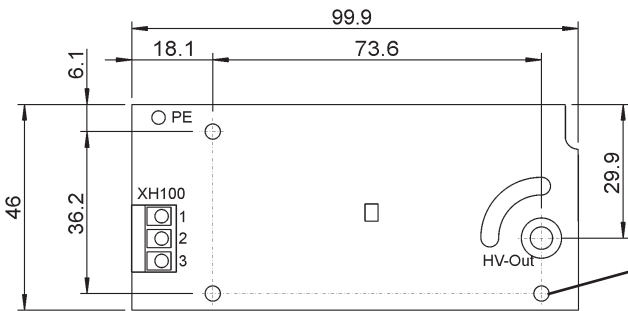
Use the drill holes provided in the ignition unit type iu-0525 for fixing the unit (see Figure 1). When installing the cables to the lamp terminals note that some capacitance between the cables and to the enclosure exists. The permitted load capacity must not exceed  $CL = 10 \text{ pF}$ . It is forbidden to extend the HV output cable.

The board must not be exposed to the light emitted by the lamp operated with the ignition unit.

The connection of the ignition unit with the ballast is made by terminals on the p.c. board. Make sure that the supply cable cross section is sufficient for the lamp current (min.  $1.0 \text{ mm}^2$ ). The connection of the ballast and the lamp with the ignition unit type iu-0525 is illustrated in Figure 2.

Technical specifications	iu-0525
Input voltage range $U_{in}$	55 - 65 VDC
max. lamp current $I_L$	5,5 A
Current consumption $I$	30 mA
High voltage $U_{HVout}$ at $C_L < 10pF$	25 - 30 kV

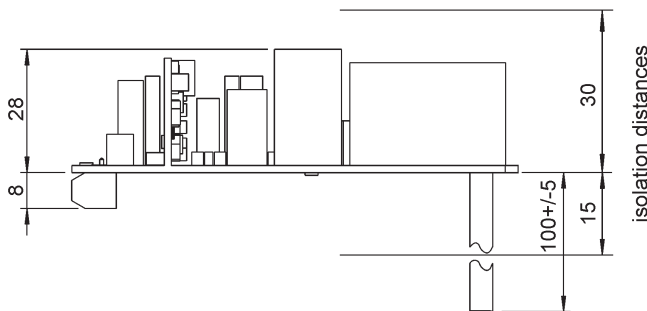
Ignition time limited to	approx. 15 s
Operating temperature $\vartheta_{Amb}$	0 -65 ° C
Protection type (DIN EN 60529)	IP00
Electrical safety according to	EN 61010-1 (2002-08)
Dimensions (L x W x H)	approx. 100 x 46 x 36 in mm



### Fixing holes:

Hole diameter = 3.4 mm

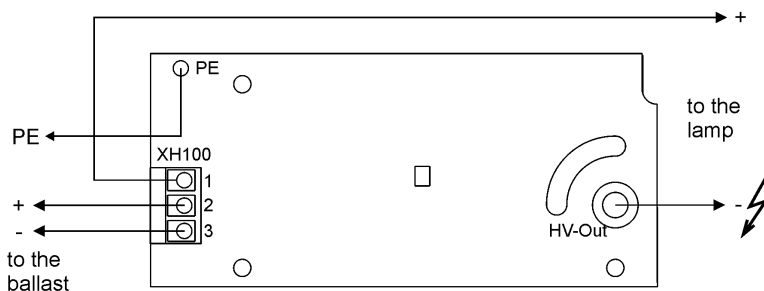
on this fixing hole use only electrically nonconductive mounting hardware



### Maintain sufficient isolation distances!

Distance to HV cable at least 10 mm (circle)

Figure 1: Dimensions iu-0525



### Attention!

The protective earthing conductor (PE) must be connected to the PE conductor of the ballast.

Figure 2: Connection diagramm iu-0525

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