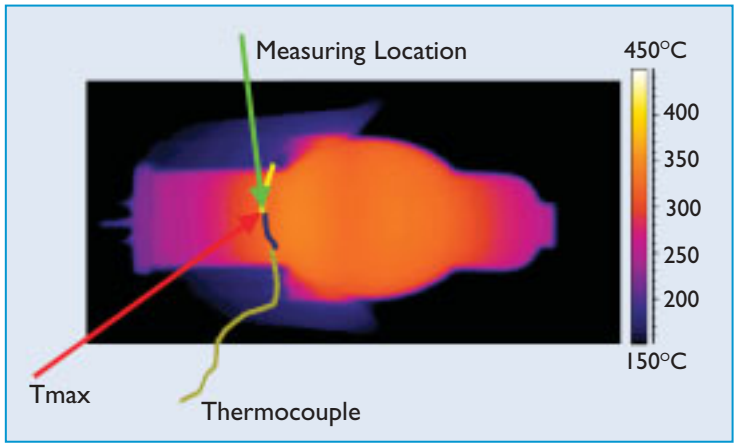
Mini MASTER Colour System

Instructions for use

Lamp base and lamp holder

- The new Mini MASTER Colour system comes with a newly co-developed twist-and-lock PGJ5 lamp holder (see enclosed data sheet). This base has been designed to be suitable for Mini MASTER Colour requirements of ignition voltage and safety.
- The lamp and lamp holder has been designed using a twist and lock fixation. Care should be taken that no excessive force is used while inserting the lamp.
- Key mechanical dimensions (light center length, diameter lamp holder, position mounting screws) of lamp and lamp holder are exactly the same as halogen (capsuleline PRO) with GY6.35 lamp holder (mechanical retrofit, see also figure 2).



Allowed temperatures new CDM 20W system

- Lamp temperatures >350°C can damage the sample beyond use. In the picture below can be seen where, measured in a narrow reflector, the highest temperature is reached. Also directions on thermocouple mounting are given.

Restrictions/remarks

Lamp and system

- Lamp is to be used in closed fixtures only
- Please note that abrupt changes in burning position might give changes in colour appearance: like all CDM lamps, some time (a few hours) needed for the colour to stabilize again in the new burning position

Gear

- The gear sample cannot tolerate warm re-ignition of the lamp (please allow the lamp to cool down at least 20 min)
- Electrical connection for the line voltage and lamp connections are clearly marked on the gear box. Improper wiring will destroy the gear.
- Samples have not been checked for EMC requirements
- High Voltage: The shape of the gear housing of the engineering sample differs slightly from the final specification (see figure 5).
- Low Voltage: The length of the PCB version and the housing will be slightly shorter in the final product. The footprint of the housing will not be changed.

Lamp holder

- All relevant data concerning the PGJ5 lamp holder can be found in enclosed datasheet
- In the datasheet can be seen that there is a small design change in the final sample (top rim will be removed). However, all relevant dimensions are unaffected.

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Specification

(Values for lamp at 100 hrs, vertical base-up operation)		
	Unit	Mini MASTER Colour system
Light Output	Lm	1500
Colour Temperature	K	3000
Colour Point		on or below BBL
Colour rendering	Ra8	80-83
Red rendering	R9	0
Operating position		universal
Lifetime	hrs	6000 (launching)
Maintenance		(as CDM -TC35W)
Base		PGJ5
Lamp power	W	22
System power	W	<25

Gear Specification (220 – 240 V version)

Supply voltage	V	220-240
Peak Ignition Voltage	kV	<1,50
Nominal Gear size (PCB version) (Details in figure 3)	mm.	94 X 40 X 26
Nominal Gear size (Housing) (Details in figure 5)	mm.	97 X 43 X 30
Power factor correction		0.5
Material housing		Plastic
Gear weight	gram	less than 150
Distance lamp to ballast	meter	2 (120 pF)

Gear Specification (100 – 120 V version)

Supply voltage	V	100 - 120
Peak Ignition Voltage	kV	<1,50
Nominal Gear size (PCB version)	mm.	122.7 X 40 X 26
(Details in figure 6) Nominal Gear size (Housing)	mm.	125 X 44 X 30
Power factor correction		> 0.90
Material housing		Metal with flying leads
Gear weight	gram	less than 200
Distance lamp to ballast	meter	2 (120 pF)

Product drawings

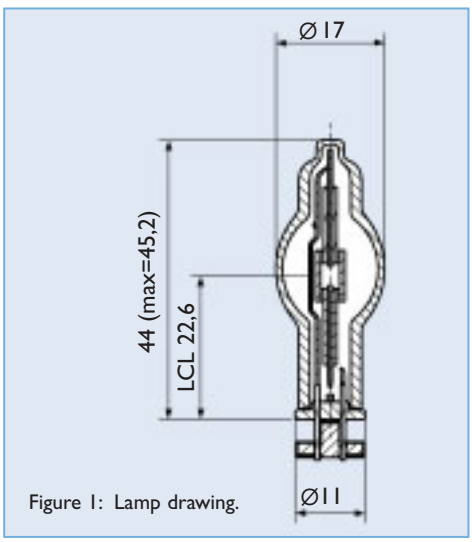

Figure 1: Lamp drawing.

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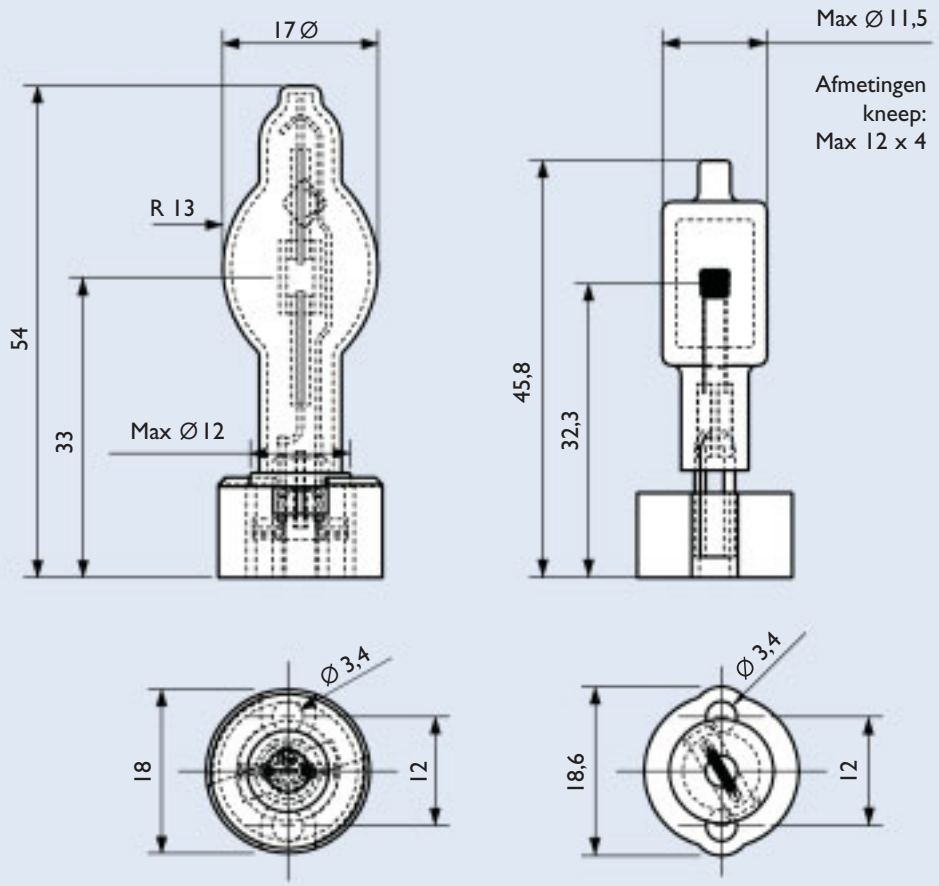

Figure 2: Explanation of concept of system retrofit.

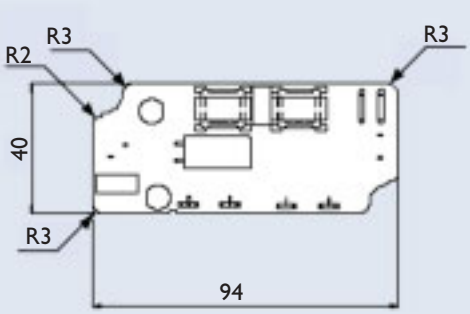

Figure 3: Dimensions PCB version (220 - 240 V).
Positioning of components can change in final product.

Figure 4: Image of final housing for 220 - 240 V version.

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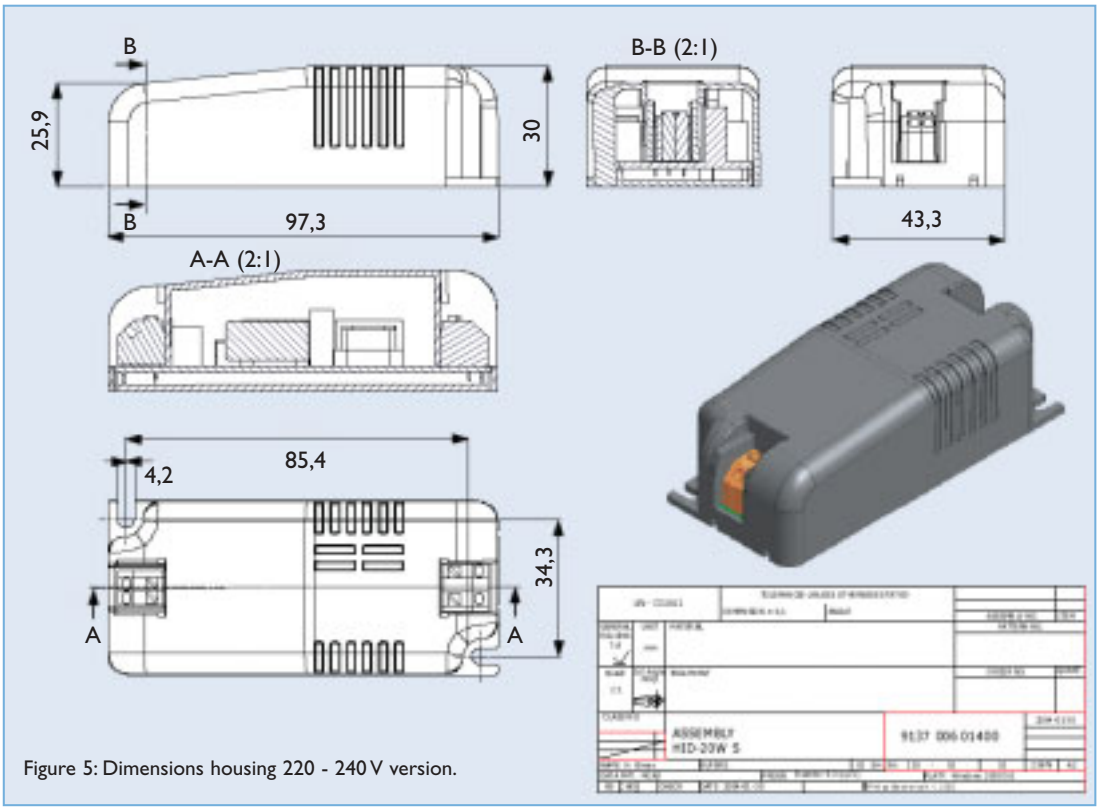

Figure 5: Dimensions housing 220 - 240 V version.

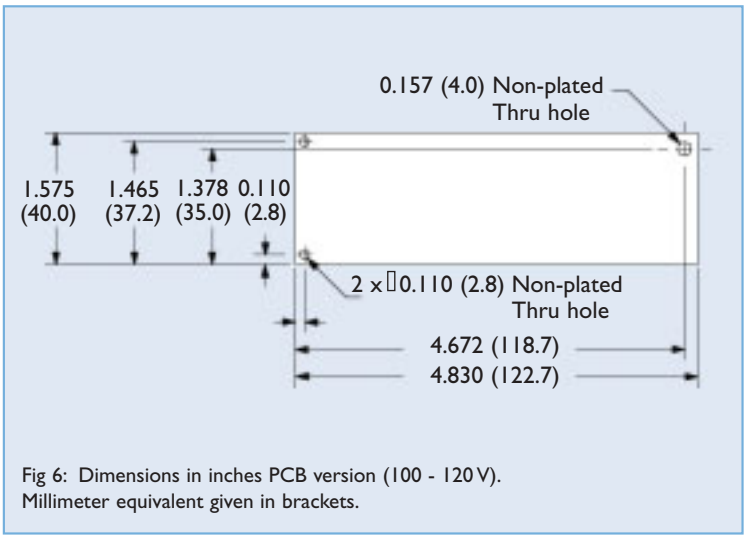

Fig 6: Dimensions in inches PCB version (100 - 120 V).
Millimeter equivalent given in brackets.

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