



Vagnini Wilson

Electronic Digital Ballast 575W DSP controlled



Electronic digital ballast suitable for 575W HID lamps.

Features:

- Built-in PFC (pf > 0.98 90-260Vac full range).
- EMI filter inside.
- Compact shape, low weight.
- DSP controlled.
- With an external interface board (optional) the ballast can be controlled and programmed stand alone, by DMX or by remote infrared control.
- Flicker free output.
- On/off and dimmer/strobo switches.
- Short and open circuit protected.
- Auxiliary fan output for forced cooling included.
- External ignitor is required.
- CE standards compliant.
- UL recognized version available. (File: E345257)

Electrical features:

	Min	Typical	Max	
MAIN input:				
Main voltage	90	-	260	Vrms
Power factor	-	0.99	-	
Input line current (@ Pout = 575W)	2.53 A (@Vin = 260V)	2.85	7.74 A (@Vin = 90V)	Arms
LAMP output:				
Nominal power	-3.5%	575	+3.5%	W
Minimum power	-3.5%	120	+3.5%	W
Max start-up lamp current	8	8.6	9	A
Square wave freq.	-2%	172	2%	Hz
Open circuit voltage (with ignitor)	320	-	350	V
FAN output:				
Voltage (@ 5W fan load)	22	24	27	V
Voltage (@ no load)	30	33	38	V
Max power (in total for 2 fans)	-	-	7	W
AUX output :				
Voltage (*)	-3%	375	+3%	V
Operating and storage temperature	-20	-	45 (**)	°C
Fuse request (external):				
	T5 A at 230Vac	-	T12 A at 110 Vac	

* optional PFC output for supply a max 30W dc/dc converter

** with forced cooling (see Page 4 for the details)

Dimensions:

Height		67 / 2638		mm / mils
Length		195 / 7677		mm / mils
Width		113 / 4449		mm / mils

With control board you can change:

- **Type of lamp:** 250W, 575W. (See table below.)
- Maximum power
- Minimum power (for dimmer or strobo)
- Supply lamp frequency.

Or you can monitor:

- Internal heatsink temperature
- Lamp power, voltage and current
- Lamp life
- Ballast life
- Time missing before ignition lamp (in case of lamp hot)

With DMX you can :

- ch1: On/off lamp
- ch2: Dimmer (from half power 250W to full power 575W)
- ch3: Zap from 6,5 Hz to 40 Hz (with power excursion from 150W to 575W)
- ch4: Evanescence with triangular shape from 13sec to 100 ms (with power excursion from 150W to 575W).

On request:

- 485 BUS for internal fixture communications
- Other customized functions/settings for lamps

LAMP specification:	Min	Typical	Max	
Lamp voltage	-	-	130	Vrms
Lamp current	-	-	12,5	Arms

When the lamp current reaches the maximum permissible value the ballast behaves as a constant current source. For very low output voltages a fault condition is detected (short circuit).

When the lamp voltage exceeds the maximum permissible value a fault condition is detected (over voltage).

Cooling:

For optimum cooling performance the fans should be two 24V 60X60mm with min. Airflow 23.5CFM (0.67 CMM).

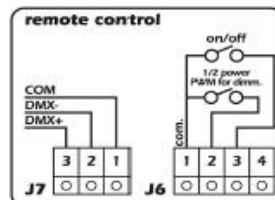
Their position should be like the photo below. The correct airflow is indicated on the label.

Thanks to the ballast shape you can put the fans very close to the same.



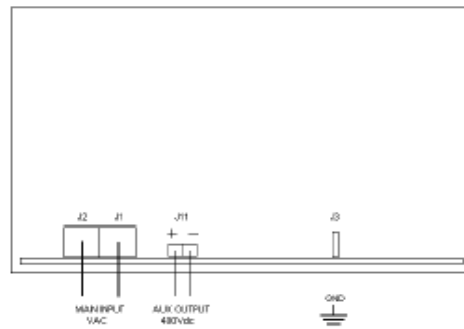
Wiring of the remote control:

PWM dimmer from 10kHz to 20kHz

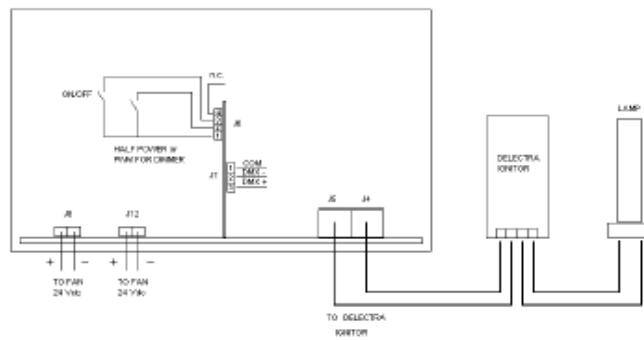


Wiring of the ballast :

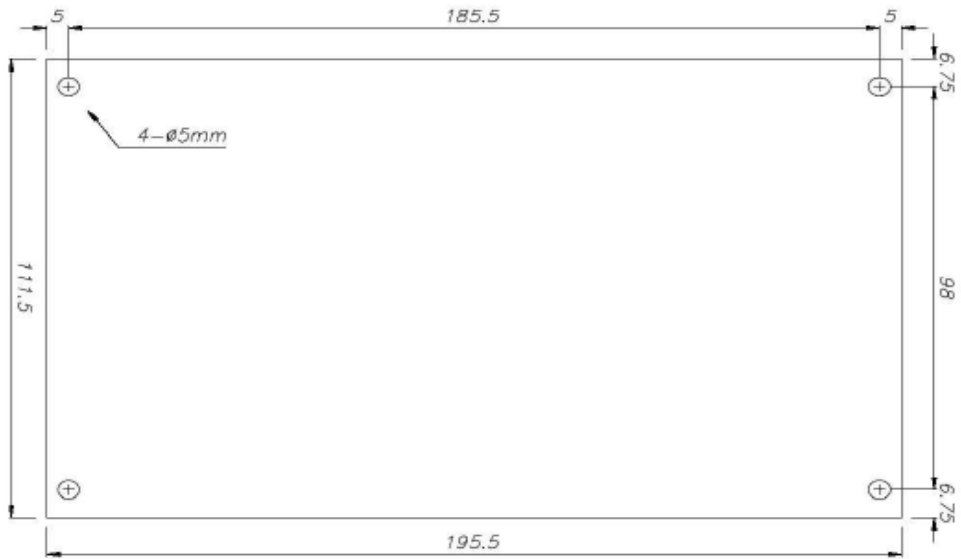
Front view:



Rear view:



Fixing points:



Ignitor cod IGK36



Warning:

The ignitor produces starting voltages in the order of several kV and electromagnetic radiation interference which are hazardous to personnel and sensitive instrumentation.

The electronic ballast must never be installed or operated in an explosive or volatile atmosphere. Never use the ballast or ignitor near flammable gases or liquids.

Do not touch any conductive parts during operation.

All installation and repair work on this unit is only permitted by qualified personnel.

No potential isolation is provided between line input and output. Accidentally grounding of an output terminal by direct contact or arcing to GND can damage the unit (no warranty replacement).

Vagnini Wilson

Piazza San Oliviero n.9 61030 Montemaggiore al Metauro -PU- tel fax 0721891669

info@vagnini.it