



### Main features

Compact units, with the generic denomination of UAL / CL2, have been designed for incorporated use in luminaires or watertight boxes.

Internally, all the necessary elements (Ballast, ignitor and capacitor) are incorporated and connected to adequately drive the specified lamp types. Only low  $\Delta t$  ballasts are used for their construction.

Depending on the type, these units can feature thermal protector and/or cyclic pulse type timed ignitor.

### Advantages of UAL / CL2 integrated compact sets compared to traditional unassembled elements systems

- > The use of compact control gear units avoids the tiresome and expensive task of having to connect the equipment's constitutive elements. Also connection mistakes and their difficult checking are avoided.
- > Space advantage is also a fact when UAL / CL2 compact units are used, as the required volume inside the luminaire is minimum due to their compact construction. There is no need for extra fixation or connection accessories (Terminal blocks, metal boards), because these elements are also incorporated, due to the design of these units.

### Optional incorporated protections in UAL units

Thermal protection: Some HID lamp types can develop intensity rectifying effect at the end of their life, when they are exhausted. This leads to a great increase of control gear heat. This phenomenon is practically nonexistent in HPS lamps, and is more frequent in MH lamps.

UAL T / CL2 and UAL TT / CL2 types incorporate an auto resettable thermal switch for overheating protection.

When the internal temperature rises over a safety limit, the thermo switch is activated and disconnects the ballast from mains, to minimise damages to lamp associated electric components.

For indoor installations with MH lamps (Department stores, shops, showcases, etc.) we thoroughly recommend the use of units featuring thermal protection.

Both types UAL T / CL2 and UAL TT / CL2 incorporate thermal protectors. UAL / CL2 (without thermal protector) is also available as a special version.

Timed ignitor: UAL TT / CL2, units incorporate a digitally controlled pulse (DCP) ignition sequence which allows pauses for lamp cooling. This model is specially recommended for lamp types which struggle to hot restrike (Ceramic burner MH 35, 70, 100 and 150W), and for installations without maintenance.

The use of these cyclic timed ignitor units prevents damages to lamp and control gear components during hot lamp restrikes, after mains failure. In these circumstances high voltage ignition attempts will be limited to a maximum duration of 25 minutes, avoiding useless tiring of control gear with exhausted lamps, which cannot restrike.

UAL / CL2		600W T 600W TT 600W
Lamps	-	HPS and MH
Format	-	EI-17
Lamp intensity	A	6.2
Line voltage (*)	V	230
Line frequency (*)	Hz	50
Line intensity	A	3
Power factor	-	> 0.9
Ignition peak voltage	kV	5
Ignitor load capacity	pF	20-2000
Distance to lamp	m	MH ≤ 7.5 HPS ≤ 15
t <sub>w</sub> (Bal.)	°C	130
t <sub>a</sub> max.	°C	40
IP	-	30
Max. wires section	mm <sup>2</sup>	2.5
Max. Number of units interconnected	-	2
Thermal protection	-	Featured T and TT types
Cyclic timed protector	-	Only featured in TT types
Energy efficiency index		EEI=A2

Mechanical data	Dimensions		
	A	mm	245
	B		122
	C		105
	D1		225
	D2		109
	D3		72
Approximate weight: 7.10 Kg			

Approvals	 01
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Standards	EN 60598-2-1, EN 60922, EN 60923, EN 61347-2-9
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Manufacture materials	Core	Silicon steel
	Coil base	Polyamide with F.G. 30%
	Wire insulation	Class 200 °C grade II
	Impregnation compound	Epoxy resin Class 180 °C

Waste disposal / Environment normative	RAEE	Exempted product
	WEEE	Exempted product
	RoHS	Compliant
	REACH	Compliant

(\*) For other line voltages or frequencies please contact our Commercial Department.

Earth connection of these units can be done by use of metallic screw and dented pressure washer at any of its fixing points.