

Lamp Control and Transformer Boxes for Zone 1 and Zone 2 Applications

This range of control boxes replaces a number of long established products for use in both Zone 1 and Zone 2 areas. The universal gearbox replaces the 720 Ex e remote gearbox series used to supply floodlights without integral control gear. Where an ignitor is required it must be with the luminaire. The correction capacitors are in the control box.

The range also replaces the 700/702 Ex d control box but does not replace the 700/702 box with ignitor. The main range is for 150W to 600W HPS lamps. These models also replace the 500/501 series Ex N gearbox but do not replace those gear boxes with internal ignitors.

The transformer box also replaces the 700 Ex d series transformer box the usual application of which is supplying 230V range control gear from 120V supplies. The transformer is designed for voltage transformation and is not suitable for use as an isolated transformer. The rating is 500 and 1000VA. Both the control gear and transformers have a built-in thermal cut-out which resets after the mains supply is switched off for a short period. This protection is needed for lighting control gear operating during possible lamp faults. This range will often be used as replacements for obsolete items using a variety of lamps. The IOM sent with each product and available on request contains essential information for correct application.



Standard Specification

Features

Type of Protection	Ex dem (Increased Safety, Flameproof, Encapsulated) Dust protected enclosure	Marine grade stainless steel construction
ATEX Classification	Group II Category 2 G D	Easy to install and maintain
Area Classification	Zone 1 and Zone 21 areas to EN 60079-10 and EN 50281-3 with installation to EN 60079-14 and EN 50281-2 Gas Groups IIA, IIB and IIC to EN 60079-14	Hinged lid with three captive fixing screws
Apparatus Standard	EN 50014 EN 50018 EN 50019 EN 50028 EN 50281-1-1	Lightweight
Certificate	EC Type Examination Certificate BAS01ATEX2270	Control gear easily accessed and can be replaced
Coding	Ⓔ II 2 G D EEx dem IIC (refer to table for T rating and ambient)	Thermal cut-outs fitted on ballast and transformer
Enclosure	Marine grade stainless steel with silicone rubber gasket	
Entry	3 x M20 cable entries	
Termination	3 core 6mm ² max. conductor with looping	
Installation	Base mounting straps	
Control Gear	Internal copper/iron and PFC correction capacitor as required	
Operating Position	Cable entries on lower end, if mounted vertically	
Ingress Protection	IP66/67 to EN 60529	
Electrical Supply	220-254V 50Hz - Control box version, 120V 50-60Hz 500VA - Transformer box version	

ATEX CATEGORY 2 ZONE 1 & 21 APPLICATIONS

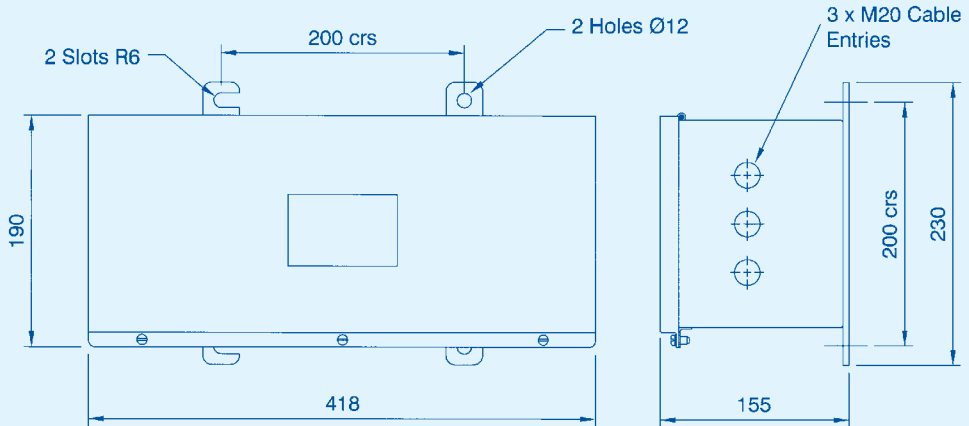
Std. Cat No.	Wattage	Lamp	T Class (Gas)	T°C (Dust)	Ambient°C	Weight
UNIE/150/HS	150W	HPS/Metal Halide	T4	110	45	10.5kg
			T3	120	55	
UNIE/250/MS	250W	HPS/Metal Halide	T4	110	45	11.0kg
			T3	120	55	
UNIE/400/MS	400W	HPS/Metal Halide	T4	120	55	12.0kg
UNIE/600/HS	600W	HPS	T4	115	45	14.0kg
			T3	125	55	
UNIE/500/TF	500VA	Transformer	T4	105	35	11.0kg
			T3	115	55	
UNIE/1000/TF	1000VA	Transformer	T4	105	35	12.0kg
			T3	115	55	

Options - Suffix to Catalogue No.

/___	Specific voltage (254)
/60	60Hz
/M25	M25 Entries
/MF	Mains Fuse
/3P	3 Phase termination

Applications

Zone 1 and 2 hazardous areas
Areas of both high and low ambient
For use where control gear has to be remote from luminaire



Product design and specifications are subject to change without notice, please check the Chalmit website for latest specifications.