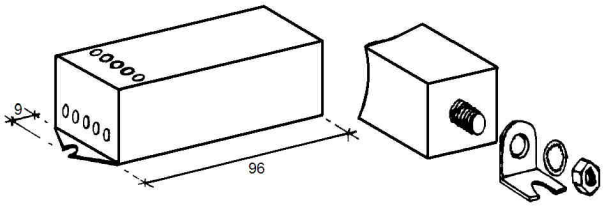
INSTALLATION INSTRUCTIONS
M532, M532/30 – Discharge Lighting Sensor

Refer to website www.mackwell.com for specific data

Description

This unit is designed to operate by sensing the voltage of a discharge lamp, and if the lamp has not struck or run up sufficiently to give adequate light, it will give a mains output which can be used to operate an auxiliary light source.



Flame retardant filled nylon case

Dimensions

Overall length	123mm
Body length	96mm
Width	34mm
Height	34mm
Fixing centres	115mm
Alternative fixing stud[Δ]	M8 x 10mm
Weight	135g

[Δ]Nylon nut supplied for M8 stud

Specification

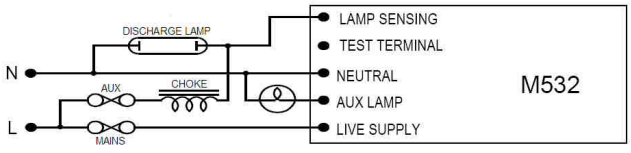
Supply Voltage	200V to 254V AC
Max auxiliary lamp load	1 kW[†]
Max case temperature	85℃

[†]Nominal 10A 115A inrush delay.

Connections Required

Sensing supply from live side of discharge lamp
Neutral
Live supply fused to suit auxiliary lamp
Connection to auxiliary lamp

Circuit Diagram



Note: Igniter omitted for clarity.

Operation

Upon initial start up, the auxiliary lamp will be illuminated until such time as the discharge lamp has partly run up (when discharge lamp voltage reaches ~60V) and is giving an appreciable light output. At this point, the standby source will be extinguished and will remain in this state whilst the discharge lamp is continuing to operate. If there is a break in the mains supply and the luminaire is reconnected whilst the discharge lamp is still hot and does not strike, the sensing device will reconnect the auxiliary lamp until the discharge lamp has re-struck and run up.

Testing

To facilitate testing, there is a test terminal present on the M532 and M532/30. Linking this terminal to neutral reduces the time taken for the auxiliary lamp to switch off when the discharge lamp reaches a preset changeover voltage.

Product	Changeover with Test link in
M532	45V
M532/30	30V

The device has been tested with numerous discharge lamps up to 1000W, including mercury, mercury halide, and high-pressure sodium types. The Mackwell M532 and M532/30 Discharge Lighting Sensors are not designed for use with low-pressure sodium discharge lamps.

Please note that it has not been possible to check every combination of ballast, igniter and lamp that is available, and it is therefore advisable to test the unit with the particular combination utilised. The sensing connection from the lamp is expecting to see voltage spikes of about 5kV max. In the case of high voltage igniters, consult your supplier.

Warranty

All our electronic products are guaranteed for three years to cover both faulty workmanship and materials. This “Return to Base” warranty requires the product to be used within the conditions stated above, and in our literature.

Products should be carefully checked thermally so that the specified temperatures are not exceeded under any condition.

Products returned to us under warranty must be carriage paid. Mackwell Electronics Ltd. accept no liability for costs incurred.

IMPORTANT

Please ensure that the information contained in this leaflet is passed on to the user/maintenance engineer.

Do not insulation test this product.