MARWOOD ELECTRICAL COMPANY LIMITED
SPECIALISTS IN LIGHTING

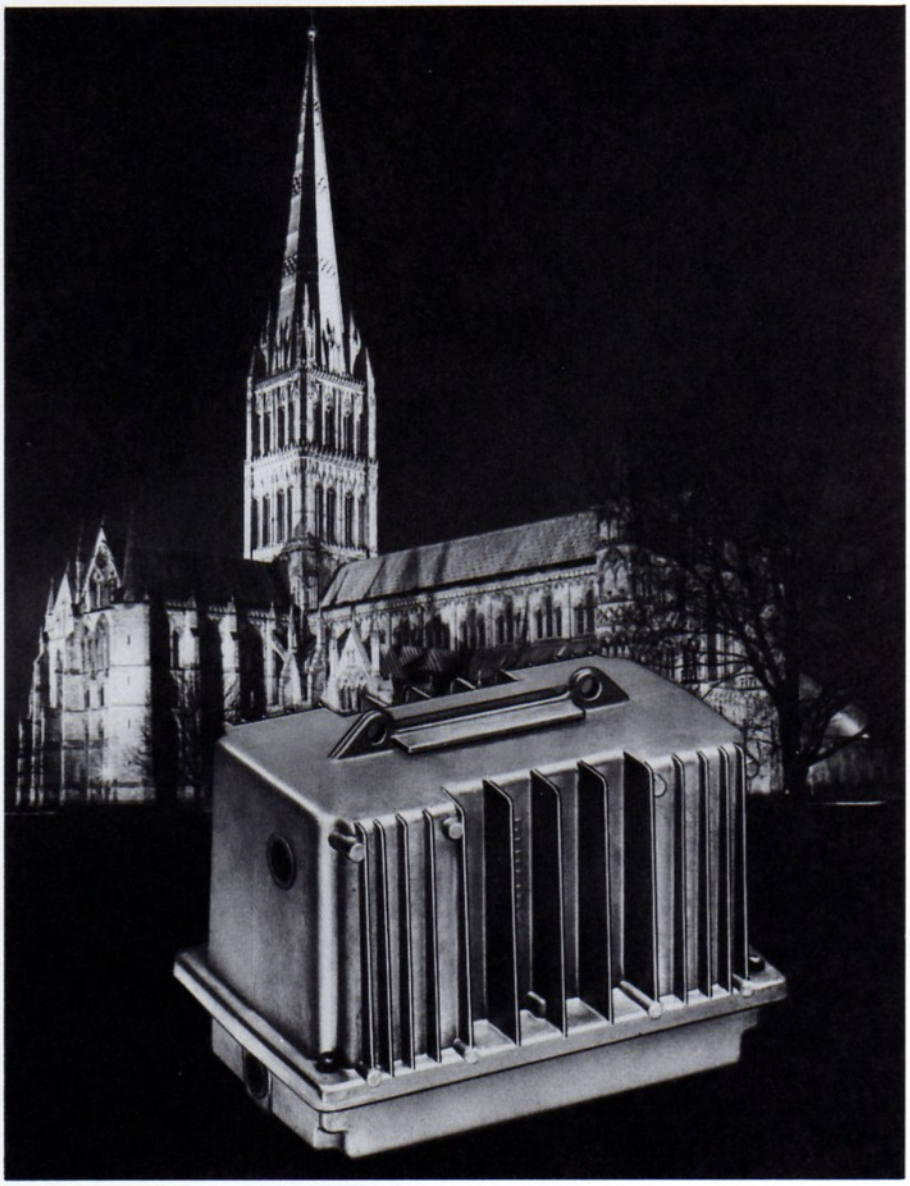
Paddock Wood Distribution Centre
Tonbridge Kent TN12 6UU

Telephone Paddock Wood (STD 089 283) 5211
Telex 95126 MARLEC

# HERMES 2

**Pre-wired gear box**

A range of 6 pre-wired cast alloy gear boxes, containing potted ballasts, for use with high-pressure sodium lamps 150W–400W, mercury fluorescent lamps 250W–700W and 400W metal halide lamps.



## RANGE

S.1500 (150W SON)

S.2500 (250W SON, 250W SON/T 250W SON/R)

S.4000 (400W SON, 250W SON/T)

H.2500 (250W HPL-N, 250W HPL-R)

H.4000 (400W HPL-N, 400W HPL-R)

H.4000 + PFC Kit P.0000/1 (400W HPI/BUS)

H.4000 + Ignitor Kit P.0000/2 (400W HPI/T)

H.7000 (700W HPL-N, 700W HPL-R)

## APPLICATIONS

For use with Philips remote-gear luminaires in a wide range of applications, including:–

■Area floodlighting (with HNF001, HNF003 and NNF010 luminaires)

■Stadia floodlighting (with HNF001, HNF003, HNF006 and NNF010 luminaires)

■Security lighting (with HNF001, HNF003 and NNF010 luminaires)

■Road lighting (with MA30 luminaires)

## FEATURES

■Sturdy, aluminium alloy housing for outdoor and indoor environments. The gear box is designed to comply with Degree of Protection IP54.

■Pre-wired and factory tested for easy, labour-saving installation.

■Low wattage losses from high-quality components reduce energy waste.

■Rated for ambient temperatures up to 45°C – excellent performance with high-bay luminaires mounted over hot factory processes.

■Remote or integral use with high-bay luminaires – the control gear can be located in the most convenient position.

■Available for use with Philips mercury fluorescent (HPL-N) lamps up to 700W and high-pressure sodium (SON) lamps up to 400W; also for 400W metal halide lamps (HPI/T and HPI/BUS).

## MATERIALS & FINISH

**Gear box housing:** Aluminium alloy casting with integral cooling fins.

**Components:** Pre-wired, with potted ballast and high-quality components.

## SPECIFICATION

Degree of Protection designed to IP54.

## RANGE OF OPERATION

240V 50Hz supplies.

Normal indoor and outdoor applications.

### Cable length limitations

In circuits using ignitors, the maximum cable length between lamp and conrol gear is limited by the capacitance of the cable. This is obtained by adding together two values obtained in test.

The capacitance of the 'high' conductor (i.e. the conductor connecting the ballast to the lamp centre contact) and all other conductors bonded together.

The capacitance between the 'high' conductor and earth (usually the protective housing of the cable).

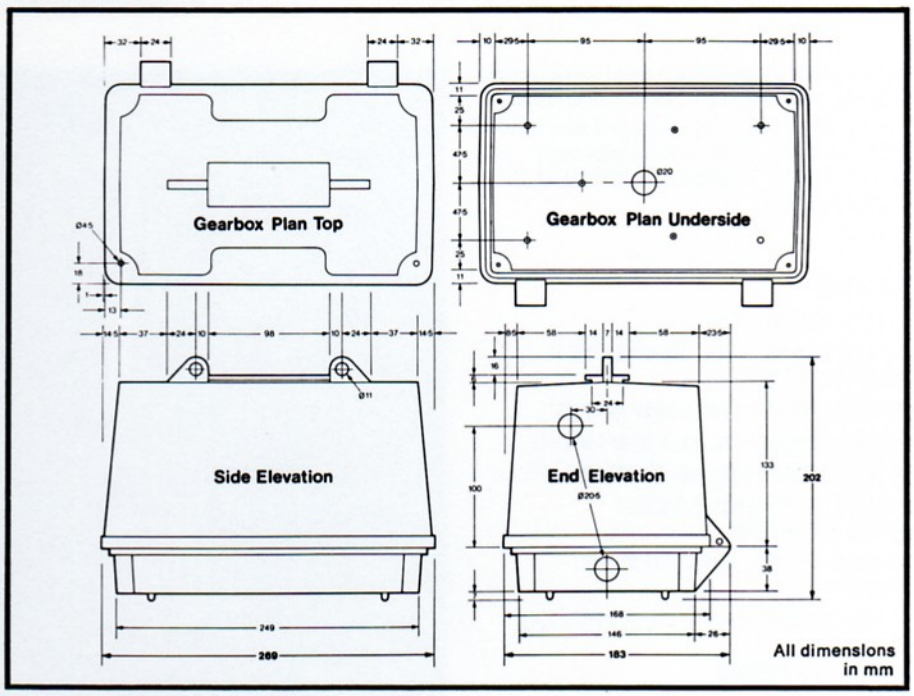
Tables giving maximum permissible cable lengths using typical cables in common applications are contained in Customer Information Sheet No. 80.

**N.B.** Mineral-insulated cables are not recommended for use in these parts of the ignition circuit.

## ORDERING DATA

| Catalogue No. | Description |
|---|---|
| S.1500 | Gear box for 150W SON lamp |
| S.2500 | Gear box for 250W SON, SON/T & SON/R lamps |
| S.4000 | Gear box for 400W SON, SON/T lamps |
| H.2500 | Gear box for 250W HPL-N & HPL-R lamps |
| H.4000 | Gear box for 400W HPL-N & HPL-R lamps |
| H.4000 + PFC Kit P.0000/1 | Gear box for 400W HPI/BUS lamp |
| H.4000 + Ignitor Kit P.0000/2 | Gear box for 400W HPI/T lamp |
| H.7000 | Gear box for 700W HPL-N & HPL-R lamps |

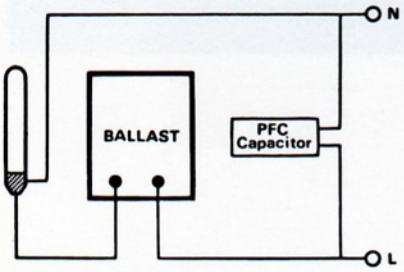
## DIMENSIONS




## DIMENSIONS, WEIGHTS & ELECTRICAL DATA

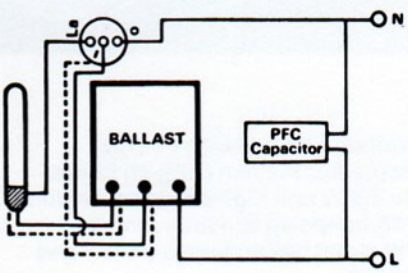
| Catalogue No. | For lamp type | Lamp Voltage V | Lamp Current A | Circuit Current Start | Circuit Current Run | Total Circuit Watts | Weight (kg/lb) |
|---|---|---|---|---|---|---|---|
| S.1500 | 150W SON | 100 | 1·8 | 1·2 | 0·9 | 174 | 5·5 |
| S.2500 | 250W SON, SON/T & SON/R | 100 | 3·0 | 1·8 | 1·3 | 280 | 6·4 |
| S.4000 | 400W SON, SON/T | 105 | 4·4 | 3·0 | 2·2 | 440 | 8·7 |
| H.2500 | 250W HPL-N & HPL-R | 135 | 2·0 | 2·1 | 1·3 | 268 | 5·2 |
| H.4000 | 400W HPL-N & HPL-R | 140 | 3·2 | 3·5 | 2·1 | 427 | 6·0 |
| H.4000 + PFC Kit P.0000/1 | 400W HPI/BUS | 125 | 3·4 | 3·3 | 1·9 | 427 | 6·1 |
| H.4000 + Ignitor Kit P.0000/2 | 400W HPI/T | 125 | 3·4 | 3·3 | 1·9 | 427 | 6·2 |
| H.7000 | 700W HPL-N & HPL-R | 145 | 5·6 | 5·6 | 3·5 | 730 | 8·6 |

### Circuit diagrams



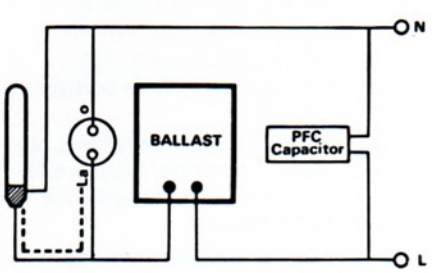

1

250W HPL-N & HPL-R
400W HPL-N & HPL-R & HPI/BUS
700W HPL-N & HPL-R




2

150W SON
250W SON, SON/T & SON/R
400W SON, SON/T




3

400W HPI/T

Made in UK.

For additional technical information, apply to Marwood Electrical Company Limited