## PHILIPS

## Product Description

## HF-Matchbox Red

Compact, lightweight, High Frequency electronic ballast for TL (8-18W), TL5
(14-24W) and compact fluorescent PL (7-24W) lamps

## Benefits

- Can be operated with movement-detection control systems.
- Automatic restart (after voltage dip or lamp exchange) ensures easy operation and hassle-free re-lamping.
- Suitable for use in class I or class II luminaires


## Features

- Over 60,000 on/off switches on one lamp (depending on lamp/ballast combination)
- Suitable for emergency DC operation between 190 and 254 V
- Programmed, flicker-free, pre-heated start (<0.8 s) which allows the lamp to be switched on and off without reducing useful lamp life


## Application

- Designed for applications with high switching frequency, for example:
- Indoor and outdoor use with infrared remote control systems (e.g. movement detection)
- Indoor residential use including living rooms, kitchens (under cupboards), studies (desktop), bedrooms, halls, staircases and garages
- Outdoor residential use including driveways, porches, front doors and galleries
- Installations with emergency back-up according to VDE 0108-100 / EN 60598-2-22
- For luminaires with protection Class I and II; Class I metal luminaires with earth connection require special measures for EMC compliance


## Dimensional drawing



Operating and Electrical

| Input Frequency | 50 to 60 Hz |
| :--- | :--- |
| Input Voltage | 230 to 240 V |
| Line Frequency | 50 to 60 Hz |

Mechanical and Housing
Housing

## SH

## Operating and Electrical

| Order Code | Full Product Name | Number of Products on MCB <br> (16A Type B) (Nom) |
| :--- | :--- | :--- |
| 91040030 | HF-M RED 124 SH TL/TL5/PL-L 230-240V | 48 |
| 93142930 | HF-M RED 109 SH TL/PL-S 230-240V | 159 |


| Product | D1 | C1 | C2 | A1 | A2 | B1 |
| :--- | :--- | :--- | :--- | :--- | :--- | :--- |
| HF-M RED 109 SH TL/PL-S | 4.4 mm | 22.0 | 10.0 | 80.0 | 70.0 | 40.0 |
| 230-240V |  | mm | mm | mm | mm | mm |
| HF-M RED 114 SH | 4.2 mm | 22.0 | 10.0 | 80.0 | 70.0 | 40.0 |
| TL/TL5/PL-C/S 230-240V |  | mm | mm | mm | mm | mm |
| HF-M RED 118 SH PL-C/PL- | 4.4 mm | 22.0 | 10.0 | 80.0 | 70.0 | 40.0 |
| T 230-240V |  | mm | mm | mm | mm | mm |
| HF-M RED 124 SH | 4.4 mm | 22.0 | 10.0 | 94.0 | 70.0 | 40.0 |
| TL/TL5/PL-L 230-240V |  | mm | mm | mm | mm | mm |


|  |  | Number of Products on MCB <br> Order Code |
| :--- | :--- | :--- |
| (16A Type B) (Nom) |  |  |


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