

A PLUG SOCKET TIME SWITCH

10 This invention relates to a plug socket time switch comprising a motor and gearing for the time-keeping drive of a switch setting disc which is provided with switching elements; comprising a plug for the coupling-up of the time switch to the mains; and comprising a plug socket for the reception of a plug of an electrical consuming device that is to be switched in a time-dependent manner, wherein the switch setting disc and the plug socket are arranged side-by-side on one side of the time switch.

15 Such time switches are already on the market in large numbers and are described, for example, in DE-Gbm (German Gebrauchsmuster) No. 7 627 298.

These time switches are, because of their construction, not permitted for use in humid rooms, since they lack spray water protection.

20 An object of the invention is to provide a form of plug socket time switch which is protected against jets or splashes of water.

25 In accordance with the invention there is provided a plug socket time switch comprising a switch setting disc, a motor and gearing for the time-keeping drive of the switch setting disc provided with switching elements; comprising a plug for the coupling-up of the time switch to the mains; and comprising a plug socket for the reception of a plug of an electrical consuming device that is to be switched in a time-dependent manner; wherein the switch setting disc and the plug socket are arranged adjacent each other on one side of a body of the time switch, characterised in that the body is provided with an openable lid for masking or covering the switch setting disc in a closed position of the lid and another openable lid for masking or covering the plug socket in a closed position of the lid; in that the periphery of the plug socket projects from said one side of the body; in that the switch setting disc is arranged on a plinth or like

support which projects from said one side of the body, and in that the lid of the switch setting disc has on its inside a hollow cylindrical part which fits closely around said plinth or like support.

- 5 The lid of the switch setting disc is preferably transparent, and the lids are preferably urged by spring force towards positions covering the plug socket and switch setting disc.

The invention will be explained by way of example with reference
10 to the accompanying drawings, wherein:-

FIGURE 1 shows the plug socket time switch, in accordance with the invention, with closed lids or covers;

FIGURE 2 shows the plug socket time switch with the upper lid
15 raised; and

FIGURE 3 shows the plug socket time switch with the lower lid raised.

The plug socket time switch comprises a body 10, a plug 1 on a
20 rear of the body 10, and, on the front 11 of the body, a switch setting disc 2, behind a transparent lid 3, and a plug socket 5, behind an opaque lid 4, above the switch setting disc 2. Both lids 3 and 4 hang down from pivotal supports 12 and are urged by spring force to closed positions in which they abut the front 11 of the time switch
25 to cover or enclose the socket 5 and disc 2, as shown in FIGURE 1.

In FIGURE 2 the upper lid 4 is shown in a half-raised position and one can partially see the plug socket 5 which for reasons of protection against moisture has a peripheral wall 13 which projects
30 forwards from an abutment surface 6 of the front 11, which surface 6 is abutted by the lid 4 in the closed position.

In FIGURE 3 the lid 3 of the switching disc is shown in a half-raised position. It can be seen that the lid 3, of rectangular outer
35 contour, has on its inside a tubular or cylindrical integrally formed part 7 which has an only slightly larger diameter than the switch

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setting disc and in the closed state completely encloses the switch setting disc 2. The switch setting disc is arranged on a plinth or like support 8 which project forwards from an abutment surface of the front 11 so as to be closely surrounded by the part 7 in the closed position of the lid 3.

In this way a very good protection of the switching disc against spray water is achieved.

10 In addition to the part 7 fitting closely around the support 8 and abutting the abutment surface of the front, the lid 3 has a peripheral wall 14 which abuts or is proximal to the abutment surface of the front 11 in the closed position.

15 The lid 4 also has a peripheral wall 15 which likewise abuts or is proximal to the abutment surface 6 in the closed position.

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CLAIMS

1. A plug socket time switch comprising a switch setting disc, a motor and gearing for the time-keeping drive of the switch setting disc provided with switching elements; comprising a plug for the coupling-up of the time switch to the mains; and comprising a plug socket for the reception of a plug of an electrical consuming device that is to be switched in a time-dependent manner; wherein the switch setting disc and the plug socket are arranged adjacent each other on one side of a body of the time switch, characterised in that the body is provided with an openable lid for masking or covering the switch setting disc in a closed position of the lid and another openable lid for masking or covering the plug socket in a closed position of the lid; in that the periphery of the plug socket projects from said one side of the body; in that the switch setting disc is arranged on a plinth or like support which projects from said one side of the body; and in that the lid of the switch setting disc has on its inside a hollow cylindrical part which fits closely around said plinth.
2. A plug socket time switch as claimed in Claim 1, characterised in that the lid over the switch setting disc consists of transparent material.
3. A plug socket time switch as claimed in Claim 1 or 2, characterised in that the two lids are biased their closed positions by spring force.
4. A plug socket time switch as claimed in Claim 1, 2 or 3 wherein said lids have peripheral walls which abut or are proximal to said one side of the body in said closed positions.
5. A plug socket time switch as claimed in any preceding claim wherein said hollow cylindrical part abuts said one side of the body in the closed position of the lid.
6. A plug socket time switch as claimed in any preceding claim

wherein the lid of the plug socket abuts said projecting periphery of the plug socket in said closed position of the lid.

7. A plug socket time switch as claimed in any preceding claim wherein upper portions of the lids are pivotally connected to said body.

8. A plug socket time switch substantially as hereinbefore described with reference to the accompanying drawings.

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The following corrections were allowed under Section 117
on 3 May 1988

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Front page Heading (72) Inventor
for Hubert Dragen read Hubert Dräger

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