Claims

1. Electrical connector (1) having a plug part (2) and a socket part (3), which the socket part (3) has at least one outer housing (4) and an inner part (5) that can be rotated relative to said outer housing, wherein the inner part (5) can be rotated by the plug part (2) inserted into the socket part (3), **characterized in that** the inner part (5) is designed as an adapter part (6) which has an adapter opening (8) on an outside (7) facing away from the plug part (2) for rotationally fixed reception of a switching element (9) for connection/disconnection of a load, wherein the switching element (9), as an on/off switch, protrudes from a rear switch part (11) in the direction of the adaptor part (6).

2. Electrical connector according to claim 1, **characterized in that** the adapter opening (8) and the switching element (9) are designed to be complementary to one another.

3. Electrical connector according to claim 1 or 2, **characterized in that** the switching element (9) is a switch shaft (10) with in particular an angular cross section.

4. Electrical connector according to any one of the preceding claims, **characterized in that** the adapter part (6) is arranged on or in the outer housing (4) so as to be detachable.

5. Electrical connector according to any one of the preceding claims, **characterized in that** the adapter part (6) has through-openings (12) for essentially pin-shaped plug contacts (13) of the plug part (2).

6. Electrical connector according to any one of the preceding claims, **characterized in that** the adapter part (6) has insertion openings (14) for electrically contacting the plug contacts (13).

7. Electrical connector according to any one of the preceding claims, **characterized in that** a switching device (15) of the rear switch part (11) for adjustment between on position and off position is associated with the switching element (9).

8. Electrical connector according to any one of the preceding claims, **characterized in that** a rotation angle (16) for the relative adjustment of the plug part (2) and the socket part (3) is 20° to 120°, preferably 40° to 100°, and in particular preferably 60° to 90°.

9. Electrical connector according to any one of the preceding claims, **characterized in that** a locking device, in particular a bayonet catch (17), is formed between the plug part (2) and the socket part (3).

10. Electrical connector according to any one of the preceding claims, **characterized in that** the adapter part (6) is arranged in a spacer (24) at the rear end of the socket part (3).

11. Electrical connector according to claim 10, **characterized in that** the spacer (24) is arranged between fastening flange (22) and the rear switch part (11) and is designed in particular for fastening of the rear switch part (11) so as to be detachable.

12. Electrical connector according to claim 10 or 11, **characterized in that** the spacer (24) has a guide sleeve (27) on its side facing away from the rear switch part (11).

13. Electrical connector according to any one of the preceding claims, **characterized in that** a fixing piece (25) in the adapter part (6) serves to fix insertion sockets (30).

14. Electrical connector according to claim 13, **characterized in that** the fixing piece (25) has radially outwardly projecting spacers (28) and, centrally, a longitudinal switch shaft opening (29).

15. Electrical connector according to any one of the preceding claims, **characterized in that** the plug part (2) and/or the socket part (3) have rotational adjustment markings (18).

16. Electrical connector according to claim 15, **characterized in that** at least one rotational adjustment marking (18) is formed as an end stop (19).

17. Electrical connector according to any one of claims 7 to 16, **characterized in that** electrical connection lines (20) are formed between insertion opening (14) and switching device (15) for length compensation during the rotation of the plug parts (2) and the socket part (3) relative to one another.

18. Electrical connector according to any one of claims 14 to 17, **characterized in that** the longitudinal switch shaft opening (29) has at least two different cross section areas.

19. Socket part (3) of an electrical connector (1) according to any one of the preceding claims.