

MODULE FOR PROVIDING AN INTRINSICALLY SAFE
ELECTRICAL OUTPUT POWER AND EXPLOSION-PROOF
LUMINAIRE

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ABSTRACT

The invention relates to a module (10) for an explosion-proof luminaire (22) or for another explosion-proof electric device. The module (10) is designed to convert each non intrinsically safe input power on an input (11) into
10 respectively one intrinsically safe output power on a plurality of outlets (17). A corresponding electrical load, for example a light emitting diode arrangement of at least one light-emitting diode (21) can be connected or is connected to each outlet (17). The outlets (17) can be connected in parallel or in series between a first inlet connection (12) and a second inlet connection (13) of the inlet (11). At
15 least one current monitoring device (27) monitors an outlet flow (IA). At least one voltage monitoring device monitors an outlet voltage (UA). As soon as an outlet voltage (UA) exceeds a voltage threshold value and/or as soon as an outlet flow (IA) exceeds a flow threshold value, a safety switch (16) is switched into a locking state by means of a control circuit (28).

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The most suitable drawing: Fig. 1.