

Title (en)
EXPLOSION-PROOF LED MODULE

Title (de)
EXPLOSIONSGESCHÜTZTES LED-MODUL

Title (fr)
MODULE DEL PROTÉGÉ CONTRE LES EXPLOSIONS

Publication
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Application
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Priority

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Abstract (en)
[origin: CA2833063A1] The invention relates to an explosion-proof LED module (1) that has at least one light-emitting diode (2), a heat sink (3) connected to said diode and an LED cover (5) that covers the LED at least in the emission direction. The LED cover (5) extends into an insertion recess (6) of the heat sink (3). In this insertion recess, the LED cover is surrounded by a casting compound (7) sealing the LED relative to an external and potentially explosive atmosphere. Thus, an explosion-proof LED module can be provided, which can be produced relatively simply and cost-effectively from prefabricated parts in a short time. At the same time, the explosion-proof LED module is further characterised in that sufficient cooling is provided according to the ignition protection class "intrinsically safe" and embedding of the component is provided according to the ignition protection class "cast encapsulation."

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