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Integrated overload protection: electrically conductive connection method

Electronic components can be destroyed by the sudden discharge of electrostatic charging (for example through touch) at lightning speed. In many areas of production, electrostatic discharging must therefore be prevented by means of a systematic discharge (ESD).

The item MB Building Kit System has a long and proven tradition for industrial plant engineering and construction. To guarantee a profile connection with discharge capacity, however, the protective and isolating anodic coating of the profiles must be systematically disrupted in the connection area.



Traditionally, this problem was solved by using separate voltage compensating elements, which had to be installed in an additional production step.

item now introduces a new and integrated solution for base profile connections. With the standard connection module 8 ESD or contact pin 8 ESD (mainly for universal and automatic connection modules) the anodic coating layers of the profiles are safely disrupted and the connected profiles are capable of electric discharge.

The advantage for the user: In only one production step, an ESD-capable profile connection is created by simply tightening the screws.

Solingen-based item Industrietechnik GmbH develops and supplies the MB Building Kit System, which enables individual solutions to be created for all sectors of industrial equipment construction. The Building Kit System is based on aluminium profiles, a perfectly matched connection method and versatile functional components.