

# HBM hotnote

## Load cells for aseptic and hygienic requirements



# PW27



"WORLD PREMIERE"

**R**egulations impacting on the hygienic and aseptic properties of components used in weighing/packaging systems and filling/dosing equipment for the food and pharmaceutical industries are constantly increasing.

In such systems, which carry out filling tasks under strict hygienic conditions, all installation components that are used must meet the current aseptic and hygienic requirements – because numerous machines and systems are now delivered with EHEDG certification (European Hygienic Engineering & Design Group).

For technical reasons, filling is increasingly implemented by means of determining the weight. So far, standard load cell configurations have not been able to meet such hygienic requirements, even when they are made of stainless steel. In addition, they must be resistant to the special cleaning and disinfection media used in the

food industry. For these reasons, HBM has developed the aseptic/hygienic PW27 load cell; patents have been registered for several characteristics. The design of the load cell complies with the strict EHEDG guidelines and final applicable certification.

There are no edges, corners or holes to provide any surfaces that can be attacked by contamination, deposits, bacteria or mold development. The load cells must also be protected against penetrating moisture due to the cleaning cycles implemented at short intervals for filling, weighing and dosing systems. The PW27 load cells meet all these requirements with their hermetic encapsulation, offering a high degree of protection (IP68/IP69K). The surface and quality of the materials used are authorised for use in sensitive areas, and the connection cable comes with an extremely resistant antibacterial cable sheath. This enables cleaning with high-pressure steam jet cleaners or chemical media, as well as use in CIP systems. The mechanical ruggedness of the sensors reduce system downtimes to a minimum as the platform load cells are equipped

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with an integrated overload protection encapsulated in the solid enclosure. This means that the PW27 load cell is the first choice for weighing/packaging systems, filling and dosing machines, and platform scales, representing a world premiere in the 10 kg and 20 kg weighing ranges.

more... [www.hbm.com/weighing](http://www.hbm.com/weighing)



*Application: Multihead weigher*

Multi-head combination weighers are usually found as components in a packaging plant. Up to 46 containers can be installed, either in ring or line configuration, attached to load cells. While the filling material is being added, the control system calculates the weight and discharges the containers that make up the final weight into the appropriate retail product bag.



*Application: Filling machine*

A weigh filler can be a component of a filling machine. Up to 96 filling stations, in ring or line configuration, can continuously fill containers made of glass, metal or plastic. The containers being filled stand on or hang from the load cell and a valve is opened or closed according to the value determined after taring.

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