

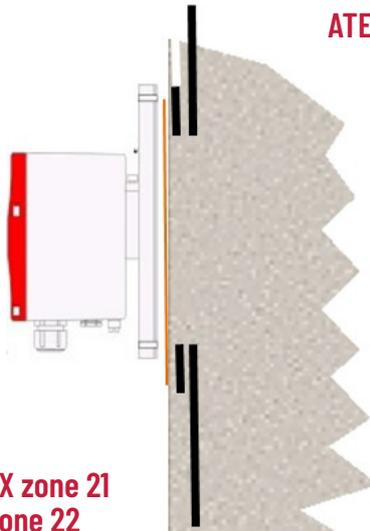


MBA100

The mechanical diaphragm level switch for bulk/granular materials, pellets, powders

 II 1/2D Ex t IIIC T* Da/Db IP65

ATEX zone 20



ATEX zone 21
or zone 22



The MBA100 fulfils central tasks in level detection of free-flowing bulk material, granules, powder or pellets. A switching operation is triggered by slight pressure of the bulk material on the stainless steel membrane. In the process, a microswitch is actuated, which switches an electric signal.

Another variation of the device can withstand temperatures up to 300 °C due to the heat-resistant design. The purely mechanical fill-level display is very easy to handle. Simply fastening it to the silo wall and connecting the signal line is enough to put the MBA100 into operation. No additional operating voltage is needed.

Areas of application for almost any bulk materials as a full sensor, demand sensor or empty sensor in the silo; as a redundant measurement system for continuous measurements and many other applications.

Details

- maintenance-free measurement
- flush-mounted installation
- mechanical adjustment
- ATEX certification / IECEx
- high system availability



Usable for temperatures up to 300 °C



Robust stainless steel membranes for sensitive measurement



The measurement is carried out without additional operating voltage

ELECTRONICS

ACOUSTIC

WEIGHT

OVERLOADING
SAFETY SYSTEMS

VALVES

TEMPERATURE

DETECT
A FIRE®

FLOW

DENSITY

INTERFACE

PRESSURE

LEVEL

TF
07

Technical description of the variants

Operating Conditions

Ambient temperature	-40 ... +80 °C		
Temperature in the bin	MBA110: -20 ... +100 °C	MBA120: -20 ... +200 °C	MBA130: -20 ... 300 °C
Pressure	ambient pressure		
Protection class	IP65 - water and dustproof for outdoor installation		

Product properties

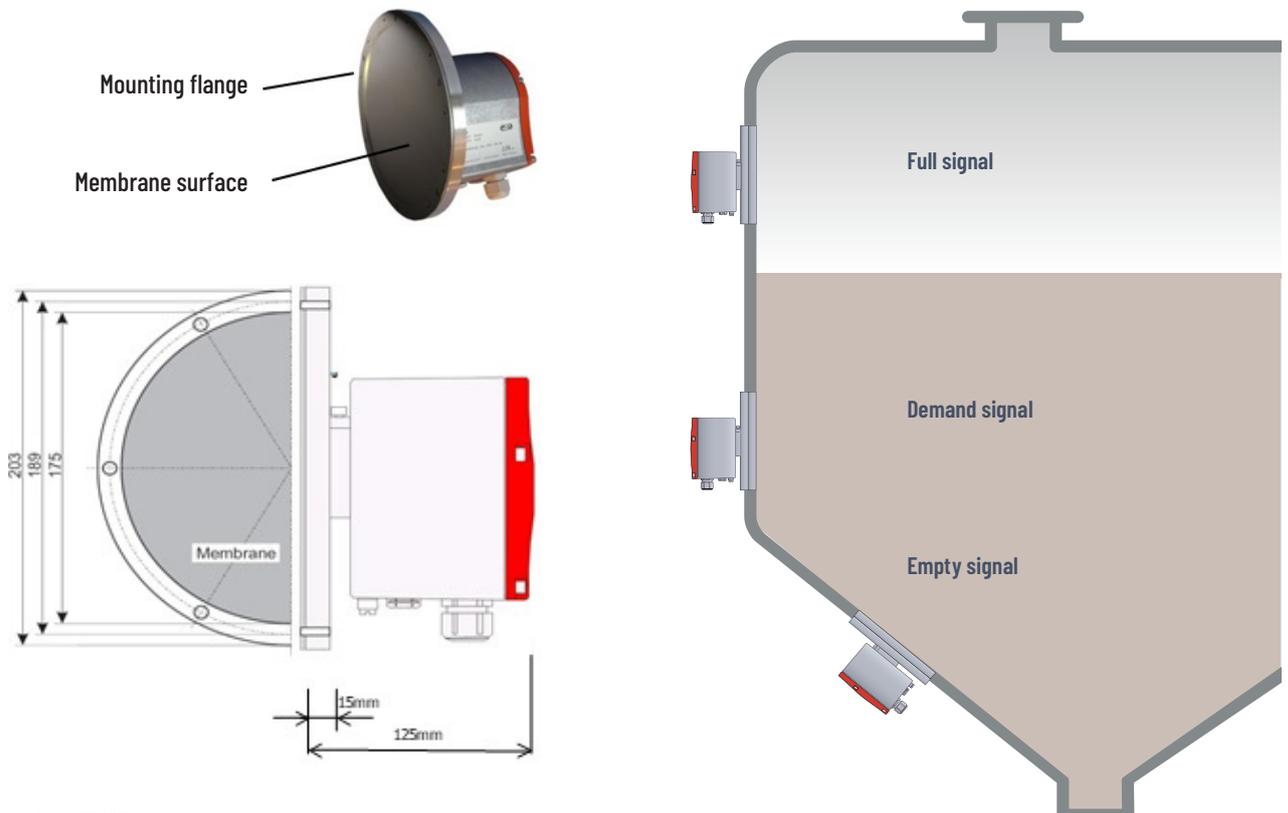
Supply voltage	Mechanical switch
Signal generator	Microswitch assignable as opener or closer
Switching power	250 V, 10 A AC or 24 V 2 A DC
Triggering pressure	6 g/cm ²

Material

Housing	Aluminium: AlCuMgPb
Components contact the product	Membrane: Stainless steel 1.4305 - Flange ring: 1.4301

Connection types

Flange	189 mm, 6 bolt holes 7 mm diameter
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