

Membrane level indicator



MF

Membrane level indicator

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As occasion demands, the level indicators **type MF** can be used as full, empty or demand indicator for bulk goods. This indicators are detecting the filling level in silos, containers, discharge pipes and vessels. They can be used as jam indicator at drains of screw conveyors, feeders and also at the input and output facilities of elevators.

They are qualified for dusty, powdery and granulated as well as grained bulk goods.

Membrane level indicators guarantee in any mounting position an absolute reliability and safe function, even under extreme conditions.

..... MFB

- ▶ grain size up to 100 mm
- ▶ bulk density from 0,3 t/m³ to 2,5 t/m³



Materials

- ▶ housing aluminium
- ▶ membrane NBR, VITON or stainless steel
- ▶ mounting ring aluminium or stainless steel

Signal contact change-over contact,
potentialfree

Capacity of the contact 4 A / 250 V AC

Ambient temperature $-20\text{ °C} \leq T_a \leq +80\text{ °C}$

Bulk temperature $-30\text{ °C} \leq T_a \leq +200\text{ °C}$

Type of protection IP40
IP53 (if the mounting position of the compensating filter is downwards)
IP65 (with stainless steel membrane)

Maintenance none

Sensitivity 100 g ... 500 g

..... MFD

- ▶ grain size up to 30 mm
- ▶ bulk density from 0,3 t/m³ to 2,5 t/m³



Materials

- ▶ housing GRP
- ▶ membrane NBR or VITON
- ▶ mounting ring galvanized steel or stainless steel

Signal contact change-over contact,
potentialfree

Capacity of the contact 4 A / 250 V AC

Temperature range $-20\text{ °C} \leq T_a \leq +70\text{ °C}$

Type of protection IP65

Maintenance none

Sensitivity 60 g ... 200 g

Membrane level indicator





ATEX-Options

Function principle

Utilization of the bulk goods gravity. As the bulk goods touches the membrane, a pressure will be caused at the membrane. A signal switch registers this pressure and interprets it.

Suitable for all industrial fields.

Ex types of protection

-  II 3D Ex tc IIIC T80°C
-  II 1/3D Ex ta/tc IIIC T63°C
-  II 1/2D Ex ta/tb IIIC T83°C
-  II 2G Ex ib IIC T6

MFE

- ▶ for simple applications as for example plastic granulate or granular bulk materials



Materials

- ▶ housing GRP
- ▶ membrane NBR, VITON or stainless steel
- ▶ mounting ring galvanized steel or stainless steel

Signal contact change-over contact, potentialfree

Capacity of the contact 4 A / 250 V AC

Temperature range $-20\text{ °C} \leq T_a \leq +60\text{ °C}$

Type of protection IP40
IP53 (if the mounting position of the compensating filter is downwards)
IP65 (with stainless steel membrane)

Maintenance none

Sensitivity 60 g ... 200 g

MFE-A

- ▶ for use in potentially explosive gas atmospheres



Materials

- ▶ housing aluminium
- ▶ membrane stainless steel
- ▶ mounting ring stainless steel

Signal contact change-over contact, potentialfree

Capacity of the contact 4 A / 250 V AC

Temperature range $-25\text{ °C} \leq T_a \leq +80\text{ °C}$

Type of protection IP66

Maintenance none

Sensitivity 60 g ... 200 g