



The digital rotating paddle,  
level detection switch for bulk material

**MBA800**



- + *digital measurement technique*
- + *proven construction*
- + *adjustable switching behaviour*
- + *ATEX certification*
- + *high system availability*



Rotation by 360° with reversal of direction of rotation



Device head can swivel and be pulled off



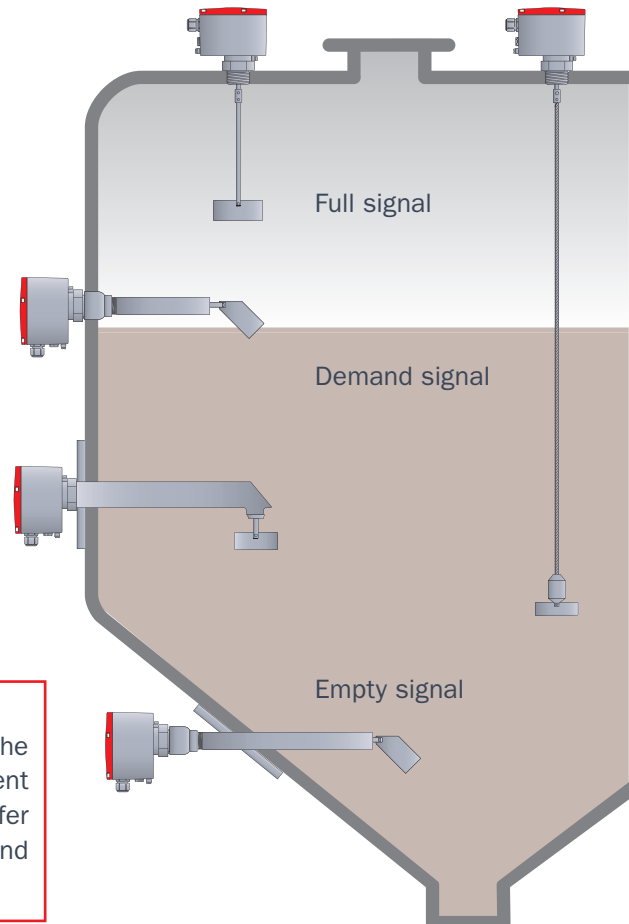
Selectable parameter sets



**The maintenance-free MBA800 from the rotating paddle detector series.**

The successful combination of rotating paddle and stepper motor is used in the MBA800 digital fill level series of devices. Penetration of bulk material in the rotating paddle is prevented by its encapsulated housing, which means mechanical wear is excluded. The result is the world's first maintenance-free measurement device that can be used with almost any type of bulk material. In addition, the high level of user friendliness is given by the factory-set electronic torque.

The powerful motor with a miniature paddle can be set with regard to the torque, rotational speed, change of direction of rotation, reaction time and restart time. The torque (sensitivity) can also be adjusted separately in ten steps. The complete MBA800 series of devices is ATEX type-tested and can therefore be used in all bulk materials and applications. This also applies to strong vibrations with certified 29g.



**Areas of application for almost any bulk materials:**  
as a full sensor, empty sensor or demand sensor in the silo; back-up sensor in the downpipe; for measurement above discharge augers or similar conveyors; in transfer stations; below the discharge edge of conveyor belts and in many other applications.

<b>TECHNICAL DESCRIPTION OF THE VARIANTS</b>		
<b>Operating Conditions</b>		
Ambient temperature:	-50 ... +60°C (without ATEX) -20...+50°C (with ATEX)	
Temperature in the bin:	up to 1200°C	
Pressure in the bin:	-0.5 ... +10 bar (air pressure based on the ambient pressure)	
Vibration resistance:	certified up to 28 g	
Housing protection class:	IP65 – water and dustproof for outdoor installation	
<b>Product properties</b>		
	<b>MBA810</b>	<b>MBA820</b>
Supply voltage:	115 V...230 V AC / 24 V DC (±10%)	24 V DC (±10%) or 12V DC
Current consumption:	26mA (6VA) / 250mA (6W)	250mA (6W)
Signal generator:	Relay change-over contacts, potential-free contacts	Optical coupler as NO switch (NC)
Signal output:	loadable up to max.: 230V 6A	loadable up to max.: 30V DC 1,2A.
Torque:	Adjustable in 10 steps	
Housing:	Aluminium GD-ALSI12 / 3.2582.05 / non-ferrous and therefore salt-water-proof	
Contact to product:	Steel or stainless steel 1.4305 / other materials possible on request	
Seals:	VITON and PTFE / other materials possible on request	
<b>Connection types</b>		
Flange:	DN100 / PN6 and PN16; DN125 / PN6 and PN16 / threaded connector G 1 1/2"	
Immersion depths:	90 mm to 15 m are possible with no problem	