

MBA800

Digital Rotating Paddle



Measurement: Point Level Measurement
Product: all bulk material and sediments

new with ATEX
 II 1/2 D Ex ta/tb IIIC T100°C Da/Db

Power supply

	MBA810	MBA820
Power supply:	115V...230V AC	24 V DC (±10%) or 12V DC
Power consumption:	26mA (6VA)	250mA (6W)

Switching signal

Selection signal output:	Relais-changeover contact, potentialfree contact belastbar bis max.: 230V 6A	optocoupler as normally open contact (NOC), electrical load max.: 30V 1,2A.
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Connections

Selection switching characteristic	1) Signal switches, if the rotation of the shaft is blocked → paddle is in the material 2) Signal switches, if the rotation of the shaft starts → paddle is free
Selection switching behaviour:	Parameters which have an effect on the rpm, reaction time, threshold an idle time, are packed as Parameter-Sets. Each parameter-set is adapted to its field of application. The selection of a parameter-set is ensured by turning of only one rotary adjusting switch.
Selection torque:	Max. force , which takes effect on paddle by bulk, to stop the rotation of shaft Adjustable range: 30...250 Nm

Conditions

Ambient temperature:	-50 ... +60°C (without ATEX) -20...+50°C (with ATEX)
Temperature inside container:	up to 1200°C
Pressure inside container:	-0,5 ... +10bar (air pressure relating to ambient temperature)
Vibration:	Approved up to 28g

Certification

Explosion approval:	II 1/2 D Ex ta/tb IIIC T100°C Da/Db for installations in Dust Ex Zone 20/21 EN 60079-0: 2012 + A2013 / EN 60079-31:2013
Mechanical stability:	Vibration test: DIN EN 60068-2-6 (10..150 Hz in x-,y-,z-direction) Shock test: DIN EN 60068-2-27 (1000 Shocks in x-,y-,z-direction each at 28g)
EMC	The electro-magnetic compatibility according to EN 61000-6-4: Sept. 2011 and EN 61000-6-2: März 2006 has been confirmed.

Material

Type of protection:	IP65 – water- and dust-proof, for outdoor installation
Material housing:	aluminum GD-ALSi12 / 3.2582.05 / iron free and therefore saltwater-proof
Material shaft:	stainless steel 1.4305
Material sealing:	VITON and PTFE