Reliable

Reliable control of screen cleaning

Cost effective

Non-contact and wear-free measurement

User friendly

Maintenance-free operation of the system

Coarse and fine screens

Differential water level measurement for control of screen raking

Mechanical cleaning removes entrained floating matter with screens or sieves. This protects the downstream process stages from buildup, clogging and abrasion. Solids with diameters greater than 25 mm are trapped in the coarse screens, compressed in a press and then disposed of. Finer secondary screens remove smaller residual materials. Measurement of the difference in water level between the front and the back of the screen determines the degree of contamination and initiates the cleaning of the screen when necessary.

More details
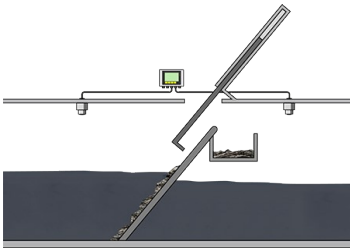
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The radar sensors measure the water level difference between the front and back of the rake screen

- Exact measuring results unaffected by ambient conditions
- High plant availability thanks to wear and maintenance free measurement
- Secure wireless operation via Bluetooth with smartphone, tablet or PC

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Controller for measured value processing and display

- Universal controller for two analogue sensors for differential measurement
- Analogue outputs for connection to process control systems
- Fast setup via simple menu navigation and application wizards

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Measuring range - Distance
15 m

Process temperature
-40 ... 80 °C

Process pressure
-1 ... 3 bar

Accuracy
± 2 mm

Frequency
80 GHz

Beam angle
8°

Materials, wetted parts
PVDF

Threaded connection
G1½ / G1, 1½ NPT / 1 NPT, R1½ / R1

Seal material
FKM

Protection rating
IP66/IP68 (3 bar), Type 6P

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Protection rating
IP66/IP67, Type 4X

Input
2 x 4 … 20 mA sensor input

Output
3 x operating relay
1x failure relay (instead of operating relay)
2x 0/4 ... 20 mA current output

Ambient temperature
-40 ... 60 °C

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