Control unit

M-Pulse3

Application

M-Pulse3 uses the multi simultaneous frequency technology in order to meet the highest requirements of the foodstuffs industry. This guarantees the best possible detection results with optimum product effect fade-out. The hygienic design and high protection class (up to IP69K) are optimally adapted to applications in the foodstuffs industry. An integrated message memory, a user management system, digital interfaces and much more come, of course, as standard!

Function

Our latest generation features the so-called multi simultaneous frequency technology (MST). The products are scanned using several frequencies simultaneously before processing the data in parallel and in real time. Previous multi-frequency technologies were only able to switch between single frequencies. This was a compromise. Just like all other detectors from Pulsotronic, the M-Pulse3 requires no maintenance! Important parameters are monitored permanently by the electronics (self-diagnosis) and analysed for deviations. This makes it possible to eliminate calibration measures, downtimes and even loss of production.

The wide range of interfaces allows a seamless integration of the controller into any production environment. All events are logged and can be evaluated in accordance with HACCP, ISO or IFS.

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Equipment & specific characteristics

The modular electronic system is characterised by a high reliability, maximum sensitivity and a low power consumption. The intuitive user interface clearly displays important information at a large 7" display and simplifies operation. Language settings and options can be adjusted for each individual user. Due to the authentication by RFID password entries and mangement belong to history! Only authorised users have access to the controller. Set-up and daily routines are simplified by wizards. Optional it is possible to set direct support by remote maintenance. The flexible operating concept allows to use the system in all imaginable applications. It is supported by an extensive equipment of hardware, software and accessories. A wide range of variations is available to connect the electronics to it´s environment. These range from simple I/Os right through to full-scale embedding using the network interfaces (Ethernet, OPC-UA, IoT).

Technical data

Mechanical data	see sensor or complete unit
Handling	
Display & Keyboard	800 x 480 TFT incl. touch (optional with RFID)
Conditions of use	
Storage temperature	-10°C .. 60°C
Operating temperature	0°C .. 50°C
Protection class	IP 65 / IP67 / IP69K
Supply voltage	85 - 264 VAC; 50/60 Hz alternative: 24 VDC
Power consumption	typ. 15 W; max. 40 W
Sensitivity	see sensor or complete unit
Interfaces	
Sensors	compatible to all sensors of the series BD
Inputs	16x optocoupler
Outputs	8x PNP; 2x NPN; 1x analog; 4x relay
Datenschnittstellen	Ethernet (RJ45: 10/100Mbit); RS232; USB