

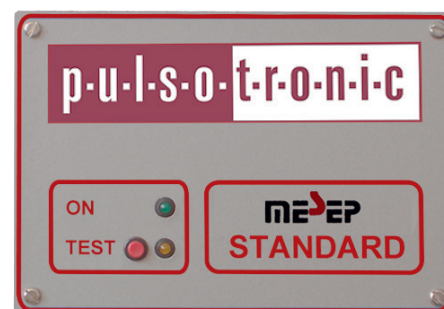
Control unit

Type: MESEP®

APPLICATION

The easy-handling MESEP electronics functions completely analog. The sensitivity can be adjusted via a rotary potentiometer.

This electronics is an integral part of a ring sensor and is situated directly on the device/sensor.



FUNCTION

An oscillator in the ring sensor excites a high-frequency, electromagnetic alternating field. Metal entering in the sensor causes eddy currents that withdraw energy from the field. This loss of energy

causes a damping of the oscillator by which the amplitude of the signal is lowered. The damping degree is a measure for the dimension of the metallic object. The evaluation unit detects the

damping of the oscillator. If the value of the damping falls below a defined threshold, the switching amplifier is activated and excites an output signal.

TECHNICAL DATA

Mechanical data	The electronics is integrated in the device.
Handling	
Adjustment of sensitivity	potentiometer (lockable)
Push-button	functional test
Display	1x stand-by signal
Application conditions	
Storage temperature	-10°C – 60°C
Operating temperature	0°C – 50°C
Protection class	(see sensor or device)
Supply voltage	230 VAC / 50 Hz or 115 VAC / 60 Hz
Power input	typ. 35 W; max. 40 W
Electric connection	3 m connecting cable; L1,N,PE; 1,5 mm ²
Sensitivities	(see sensor or device)
Interfaces	
Sensor	LC-Oscillator with straight receiver
Digital inputs	Button for functional test
Digital outputs	2 outputs.; open collector; max. 24 VDC; 100 mA signal transducer ejection
Switching relays	1 piece; 250 V; 5 A Metal alarm

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