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Rev. 0801

## Control unit

# 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.



Control unit MESEP

### 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

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