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Rev. 0901

## Control unit for flat sensors (10-channel)

### Application

This control unit can be operated with all flat detectors of the series MESEP SP, MESEP RE and MESEPAR. The unit particularly is appropriate for applications in which flat sensors detect the test material transported on conveyor belts or chutes on metallic contamination and separate it subsequently. The control of the conveyor belt can be realised directly by the control unit. The device provides 10 inputs and can either analyse large SP faces or several AR faces. The control unit is operated with 24VDC or with line voltage. It is available in three versions. The model with reversing contactor circuit allows the complete control of three-phase-motors. For this reason the device can be applied worldwide in all branches of industry.

### Function

If one of the connected sensors (max. 10) sends a signal this will be evaluated by the device. Thus the control unit can for example stop the belt or activate the reverse motion of the belt. After this the belt restarts - automatically or by pushing the start button. The actual state is indicated by two signal lights. By the reverse motion the user can make sure that really all metallic pieces have been removed. If any metallic residua is not removed from the belt, it passes the detector again and will be detected. This will be repeated until the contamination has been removed.

### Handling

On the device there are buttons for Start, Stop and for actuating alarms. Two pots in the inside of the control unit realise the adjustment of the sensitivity as well as the time. Via DIP-switch further features as automatic belt motion, the belt speed and time domains can be adjusted.



Control unit for flat sensors



Type	standard	with reverting conductor	for top hat rail
<b>Mechanical data</b>			
Dimension	200 x 200 x 80 mm	200 x 300 x 80 mm	195 x 125 x 67 mm
Weigth	2500 g	3500 g	425 g
Mounting	4 x fixing hole Ø6	4 x fixing hole Ø8	35 mm - top hat rail
Housing	metal - powder coated	stainless steel	plastic
<b>Electrical data</b>			
Supply voltage	110 VAC - 250 VAC; 50/60 Hz or 24 VDC		
Supply for sensors	15 VDC; max. 120 mA (overload- and short-circuit proof)		
Low power output	1 x high-side/open-collector; max. 20 mA (overload- and short-circuit proof)		
Relay output	1 x change-over contact; max 250 VAC, 5 A		
Speed	1-10 / 1-30 / 1-100 / 1-150 m/min		
Puls duration	1 .. 60 s		
Reverting conductor	-	3phase380 VAC; 9 A	-
<b>Conditions of use</b>			
Storage temperature	-10°C .. 60°C		
Operating temperature	-10°C .. 50°C		
Protection class	IP54	IP65	IP20
<b>Order information</b>			
Order number	08349005000	08349005002	08349005001

