



Subject to change without notice!
Rev. 0901

Control unit for flat sensors

Application

This control unit can be operated with all flat detectors of the series MESEP SP, MESEP RE and MESEP AR. By a decoder switch the control unit can be adapted easily to the sensor and the application. The supply voltage for the sensor is provided by the device. The control unit can be mounted on a 35 mm top hat rail.

Function

If the connected flat sensor excites a signal, it will be collected and lengthened on the adjusted period by the control unit. When during that time another signal is excited, it will be lengthened on the adjusted period again. After that the signal is output via a relay and a transistor output. The active switching state is indicated by an LED. Drift effects on the sensor caused by deterioration or thermal fluctuation are balanced by the control unit. The device can be operated with 24V direct current or alternatively with line voltage. The voltage supply for the sensor is realised directly via the control unit. All outputs provide short circuit protection as well as overload protection. All voltage inputs are protected against reverse polarity.



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Handling

The period for a switching pulse and the sensitivity can be adjusted via a potentiometer. For a more exact adjustment the user chooses among two time ranges. The adjustment of the time domain is effected via a rotary coding switch. Via this switch the user also defines if the relay shall be activated. Furthermore the switch serves for the selection of the appropriate speed range. Altogether there are four different ranges from minimum 10 m/min up to maximum 150 m/min.



Control unit for flat sensors

Type	Control unit for flat sensors 230 VAC / 24 VDC	Control unit for flat sensors 115 VAC / 24 VDC
Mechanical data		
Dimension	L x B x H 90 x 53 x 58 mm	
Weigth	290 g	
Mounting	35 mm - top hat rail	
Electrical data		
Supply voltage	230 V; 50/60 Hz or 24 VDC	115 V; 50/60 Hz or 24 VDC
Supply for sensor	15 VDC; max. 80 mA (overload and short-circuit proof)	
Low power output	1 x low-side/open-collector; 1 x high-side/open-collector; 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	
Pulse duration	1 .. 10 s / 1 .. 60 s (adjustable)	
Condition of use		
Storage temperature	-10°C .. 60°C	
Operating temperature	-10°C .. 50°C	
Protection class	IP20	
Order information		
Order number	08349005010	08349005012

