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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.



Control unit for flat sensors

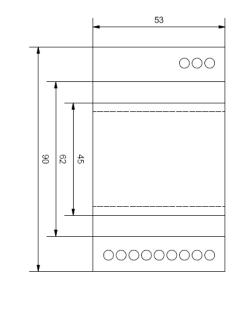
Handling

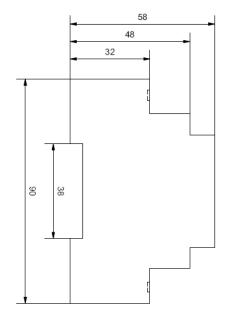
The period for a switching pulse and the sensitivity can be adjusted via a potentiometer. For a more exact adjustment the user chooses among two time ranges. The adjustment of the time domain is effected via a rotary coding switch. Via this switch the user also defines if the relay shall be activated. 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.

Neue Schichtstraße 7 D-09366 Niederdorf 3.53



| Туре | 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 |





3.54 Pulsotronic-Anlagentechnik Neue Schichtstraße 7 Tel.: 037296 9383-500 info@pulsotronic-anlagentechnik.de GmbH D-09366 Niederdorf Fax: 037296 9383-501 www.pulsotronic-anlagentechnik.de