



**Operating Instructions**

**REOVIB 51310**

Track Controller

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**REOVIB**  
FOR VIBRATORY FEEDER SYSTEMS

### Technical Safety Information for the User

This description contains the necessary information for the correct application of the product described below. It is intended for use by technically qualified personnel.

Qualified personnel are persons who, because of their training, experience and position as well as their knowledge of appropriate standards, regulations, health and safety requirements and working conditions, are authorised to be responsible for the safety of the equipment, at all times, whilst carrying out their normal duties and are therefore aware of, and can report, possible hazards (Definition of qualified employees according to IEC 364)

### Safety Instructions

The following instructions are provided for the personal safety of operators and also for the protection of the described product and connected equipment.



#### Warning!

Hazardous Voltage

Failure to observe can kill, cause serious injury or damage

- Isolate from mains before installation or dismantling work, as well as for fuse changes or post installation modifications.
- Observe the prescribed accident prevention and safety rules for the specific application.
- Before putting into operation check if the rated voltage for the unit conforms with the local supply voltage.
- Emergency stop devices must be provided for all applications. Operation of the emergency stop must inhibit any further uncontrolled operation.
- **Electrical connections must be covered**
- **The earth connection must be checked, for correct function, after installation.**
- **After switching off the unit, some internal components will still be charged due to capacitance.**
- **Before opening the unit wait at least five minutes to allow capacitors to discharge.**

### Specified Use

The units described herein are electrical controllers for installation in industrial plant. They are designed for power adjustment on vibratory feed equipment.

The units conform to the directive 89/336/EWG

EMC-Directive 

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## 1.0 Description

Track control units for regulating the material reservoir on a feed track. Nearly all propriety initiators, active light barriers or Namur transducers can be installed. The switching characteristics (PNP / NPN–output) can be adjusted on a front panel selector.

## 2.0 Function

The material demand is controlled by a sensor, the signal of which passes through two, independent, variable time delays (on and off switching delays), before enabling the output, which, for example, actuates the thyristor control.

If the sensor is uncovered (No reservoir build up) and the adjustable switch on time delay has expired, the 513 enables the power output of a thyristor controller. When the components cover the sensor, the switch off time delay starts and after this expires, the power output of the thyristor control is switched off. Gaps in the material flow are subject to control by the integral timers, so that there is consistent timing between the last component and the first component.

The on and off switching time delays can be adjusted with trimmers on the front panel of the unit, within the range of 0.5 – 15 seconds. The status of the sensors (energised/de-energised) and also the enable output (on/off) is indicated on LED's.

A relay switches changeover contacts, in addition to the enable output, and this is brought out to terminals. These contacts can be used to initiate other processes or supervisory equipment.

## 3.0 Technical Data

Gerätetype	
Supply Voltage	230 V +6% -15%, 50/60 Hz (110V Optional)
Sensor operating Voltage	approx. 24 V, DC
Sensor types	Inductive, Capacitive, Namur, Active Light Barriers
Switching Characteristics	PNP, NPN switchable
Sensor Current	100 mA
Switch on delay	0.5 – 15 secs
Switch of time delay	0.5 – 15 secs
Ambient temperature	0 –45 °C
Dimensions (l x w x h)	80 x 45 x 114
Relay contact	2 A / 250 V
Screw or Snap fixing (DIN rail EN 50022-35)	
Touch protection to VBG 4	

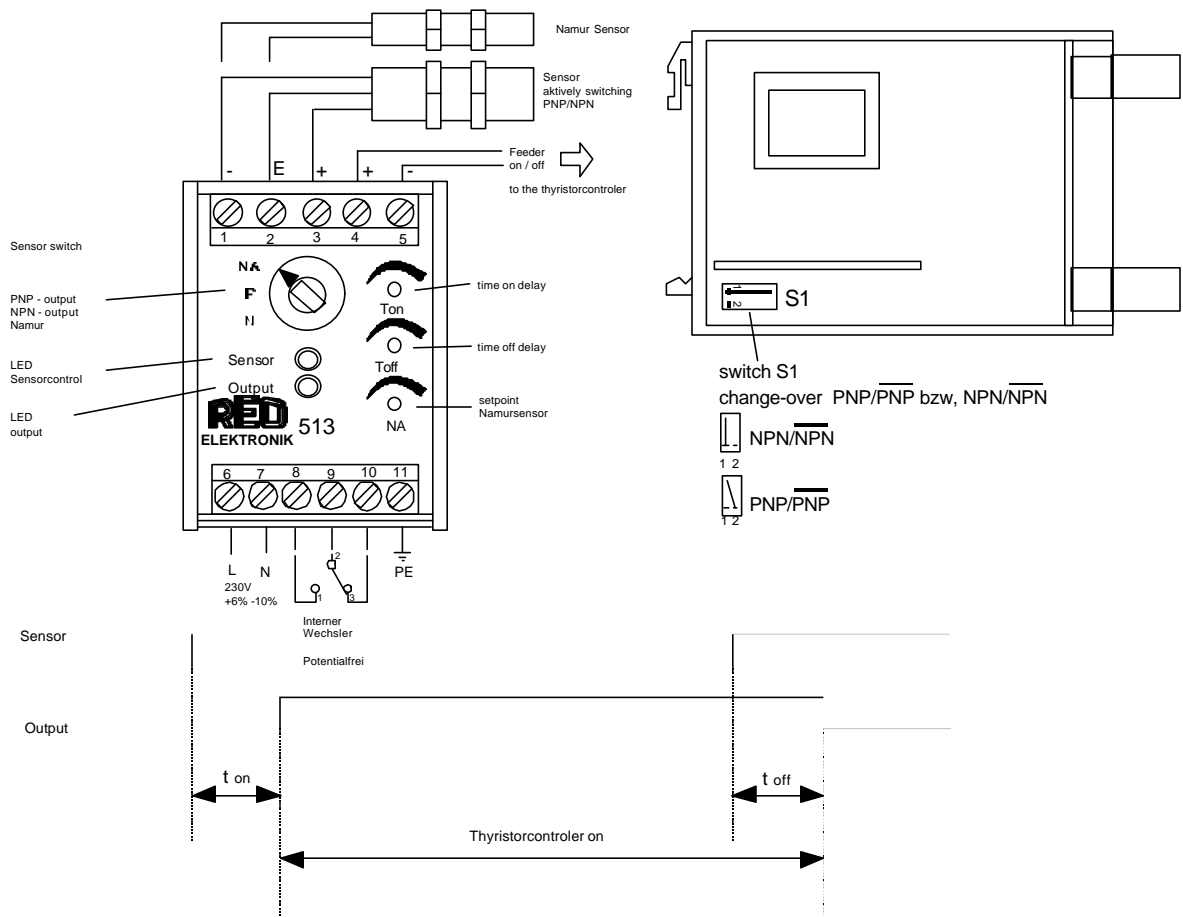
## 4.0 Declaration of Conformity



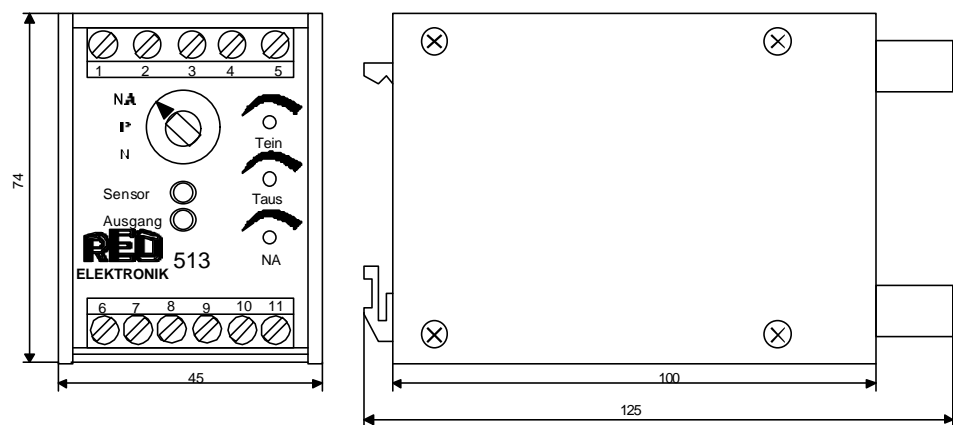
We declare that these products, as stand-alone equipment, conform to the following standards or subsequent documents: EN 50081-2 and EN 50082-2 in accordance with 89/336/EWG regulations.

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5.0 Connections



6.0 Dimensions



7.0 Ordering Codes

Type	ID.No.:
REOVIB 513 / 230V	51310
REOVIB 513 / 115V	51312