Klippon® Relay

Reliably switch timing function

Application examples of the timing relays

TFI-SERIES

Compact timing relays for buliding and factory automation

Reliable control of time functions

Timing relays fullfil many functions in industrial environments. In automation technology, they are used to compensate for errors caused by high clock rates. Timing relays extend short pulses so that downstream control components can reliably detect them.

Our new timing relay portfolio includes five different devices: Multifunction, stardelta switch, clock generator, on-delay, and off-delay. They cover the most critical applications in building and factory automation.

Visit our website for more information
www.weidmueller.com/tf

Simple configuration via rotary switches

Timing functions and time ranges are configured utilising rotary switches on the front of the devices.

According to the requirements of EN 61812

The devices comply in design and function with the international standard for timing relays according to EN 61812.

Efficient PUSH IN connection technology

Due to PUSH IN connection technology, the wiring time is significantly reduced. The coloured pushers prevent incorrect wiring.

With cULus listing for USA and Canada

All timing relays have a cULus listing for use in the North American market, without any problems.

Visit our online catalogue for more information

Industrial vacuum filter cleaning

Task:
The filters in industrial vacuums become clogged after a time. The vacuum is run in alternating suction and pressure mode to clean the filter. It should be possible to change the intervals without changing the process control program.

Solution description:
The different intervals for suction and pressure operation with the Weidmüller relay TFIS 12-240VUC 1CO CG are effected with a clock generator, and can be adjusted by the end user.

Benefit:
- Small size allows installation in tight spaces
- End user can set the intervals as needed

Order No.: 2697260000

Order No.: 2898310000

Extraction system

Task:
After the system is switched off, the extraction system should continue to run for a certain time to ensure that no sawdust remains on the machine.

Solution description:
The weidmüller timing relay TFIS 24-240VUC 1CO OFFC is used with function R off delay. The extraction system runs for the specified period of time and removes the sawdust. If the system is switched on during this time, the elapsed time is reset, and begins again from zero the next time the system is shut down.

Benefit:
- Save and cheap solution
- Protection of the plant from increasing pollution
- Increasing the service life

Order No.: 2697290000

Order No.: 2898330000

Plastic contour cutting machine

Task:
Switching on ventilation of a frequency-controlled drive motor on a contour cutting machine for plastic.

Solution description:
Additional ventilation for a frequency-controlled drive motor. The integrated ventilation is not sufficient at low frequencies (10 Hz), so an additional fan is used and is controlled by the timing relay TFIS 24-240VUC 1CO OFFC.

Benefit:
- Cooling of the motor is ensured
- Premature engine wear due to overheating is prevented

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Fluid level monitoring

Task:
When the pools at a waste water treatment plant are filled to a constant level, this causes undefined states for the float switches (a „flutter state“).

Solution description:
The use of the timing relay TFIS 12-240VUC 1CO M7C with Function E (switch-on delay) delays the reading of the switch contact until the next usable measurement, and thereby prevents „flutter switching“.

Benefit:
- Minimisation of faulty triggering and maintenance costs
- Motor protection by reducing the number of unnecessary system starts
- Increased reliability

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Weidmüller – Your partner in Smart Industrial Connectivity

As experienced experts we support our customers and partners around the world with products, solutions and services in the industrial environment of power, signal and data. We are at home in their industries and markets and know the technological challenges of tomorrow. We are therefore continuously developing innovative, sustainable and useful solutions for their individual needs. Together we set standards in Smart Industrial Connectivity.

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