

# INTERFACE Monitoring

## Monitoring relays, timer relays, function blocks

The requirements pertaining to safety and system availability are constantly increasing – regardless of the industry. Processes are becoming more and more complex, not only in mechanical engineering and the chemical industry but also in plant and automation technology. The requirements for power engineering are also constantly on the rise.

A trouble-free and thus cost-effective operation can be achieved only with continuous monitoring of significant network and system parameters. Electronic monitoring relays of the EMD series are available for a wide variety of monitoring tasks to avoid the consequences of errors or to keep them within limits.

The operating states are signaled using coLED reds, and errors that may occur can be sent to a controller through a floating contact or can switch off a section of the system. Some device versions are equipped with startup and response delays in order to briefly tolerate measured values outside the set monitoring range.

The compact timer relays in the narrow 6.2 mm housing or multi-functional timer relays can be used in order to control time sequences in production and process technology.

### Monitoring relays

The monitoring relays of the EMD series offer a cost-effective solution for monitoring tasks such as current, voltage, phase parameters, coil temperature, motor load and fluid level.

### Timer relays

Compact timer relays in the narrow 6.2 mm housing with an adjustable time range and a function as well as multi-function timer relays are available.

### Function blocks

In the function blocks, simple functions down to the component level are packaged for industrial use and provided with professional connection technology.

Examples: diode modules, lamp testing modules, display modules, motor attenuation modules.

## Program overview

### Electronic monitoring relay

- Single-phase current monitoring
- Single-phase voltage monitoring
- Three-phase voltage monitoring
- Voltage indication modules
- Load monitoring
- Phase monitoring
- Temperature monitoring (motor winding)
- Level monitoring

### Electronic timer relay

- Compact timer relay in just 6.2 mm
- Multifunctional timer relay

### Function blocks

- Diode modules
- Lamp testing modules
- Display modules
- Motor attenuation modules

