

LINETRAXX® Measuring and monitoring relays

For earthed power supplies (TN and TT systems)

Detecting and signalling disturbances – in compliance with the standards due to adjustable response values.



Measuring and monitoring relays

Parameters being monitored:

- Voltage
- Current
- Frequency
- Phase sequence
- Phase failure
- Unbalance
- Loop resistance
- Earth fault
- Vector shift
- ROCOF (df/dt)

Measuring and monitoring relays for monitoring electrical parameters in electrical installations

Bender measuring and monitoring relays monitor different parameters in main and auxiliary circuits. They provide the necessary information sufficiently well in advance to detect and signal faults and disturbances early on or to disconnect the system immediately in the event of critical system statuses. That reduces operational interruptions, damage to property and damage to the system and reduces the costs substantially.

Convincing benefits (420 series):

- Two separately adjustable response values/alarm relays
- Analogue interface with nominal signal 4-20 mA/0-10 V
- Automatic pre-parameterisation (PreSet function)
- Measured value memory for displaying the first operating value
- Flexible start-up, response and release times
- Continuous self monitoring
- Password protection for device setting
- Compact design due to a two-module enclosure (36 mm)

Application examples loop monitoring:

- Loop monitoring for motors
- Loop monitoring for PE conductor interruptions in electrical installations
- Monitoring of earthing systems

Application examples current monitoring:

- Current consumption of motors, such as pumps, elevators, cranes
- Monitoring of lighting circuits, heating circuits, charging stations
- Monitoring of emergency lighting
- Monitoring of screw conveyors, e.g. in sewage plants

Application examples voltage and frequency monitoring:

- Monitoring of voltage-sensitive electrical installations
- Switching on and switching off function at a certain voltage level
- Monitoring of stand-by and emergency supply systems
- Supply voltage monitoring of portable equipment
- Protection of three-phase motors against phase failure and phase sequence
- Transformer protection by detection of non-symmetrical loading
- Mains decoupling electricity generation systems (NS protection)

Solution for the photovoltaic industry: Network and system protection (NS protection) acc. to CEI 0-21, VDE-AR-N 4105, BDEW guideline, DIN V VDE V 0126-1-1/A1, C10/11, G59/2, G59/3 and G83/2 (LINETRAXX® VMD460)

