In the field of monitoring electrical parameters, DOLD has added new measuring and monitoring relays to its VARIMETER family. These have UL approval and are equipped with large measuring ranges, adjustable response values and switching delays as well as hystereses. Versatile functionality, flexible adjustment options and a compact design provide maximum protection for your machines and systems. This allows mains and voltage faults to be detected and rectified at an early stage before major consequential damage occurs.

The measuring relays monitor overvoltage and undervoltage, voltage ranges, phase asymmetry and phase sequence. The measurement functions can be easily selected using rotary switches and without a complicated menu structure. Early detection of impending failures and preventive maintenance prevent costly damage, and as a user you benefit from the operational safety and high availability of your system.

**Advantages and customer benefits**

- Simple device adjustment via rotary switch
- Available with UL approval
- Versatile relays
- Preventive maintenance through early fault detection
- Reliable protection of motors and system components
- Precise monitoring of different measured values
- Use without additional auxiliary voltage (exception RL 9853)
- Large measuring range
- Extensive range of measuring relays from a single source
# Measuring and monitoring relays

## Technical features
(for type RL 9877)

- According to IEC/EN 60 255-1
- For monitoring 3 and 1 phases
- Alternating voltages with 50 / 60 Hz
- Detection of
  - Overvoltage
  - Undervoltage
  - Voltage range excess
  - Phase failure
  - Phase asymmetry
  - Missing neutral conductor or neutral conductor break
  - Direction of rotation in 3-phase networks
- With or without neutral connection
- Output: 1 changeover contact
- Closed-circuit principle
- Without separate auxiliary voltage
- Adjustable hysteresis for switching back to good state
- Adjustable switching delay
- Fast fault detection
- Width 35 mm

## Applications

- Machinery and plant construction
- Engineering and planning offices
- Control and switchgear construction
- Industrial service and repair
- Building and electrical installation technology

## Type

<table>
<thead>
<tr>
<th>Type</th>
<th>3 AC phase monitor</th>
<th>Fuse monitor</th>
<th>AC voltage relay</th>
<th>DC voltage relay</th>
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<tbody>
<tr>
<td><strong>Type</strong></td>
<td>RL 9877</td>
<td>RL 9075</td>
<td>RL 9854</td>
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</tbody>
</table>

## Further information

- **RL 9877**
- www.dold.com

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**RL series**
35 mm width

**RN series**
52.5 mm width

UL US LISTED