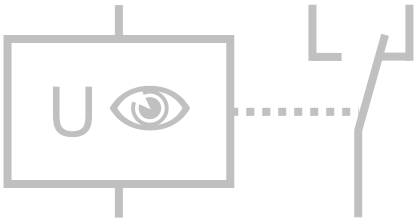


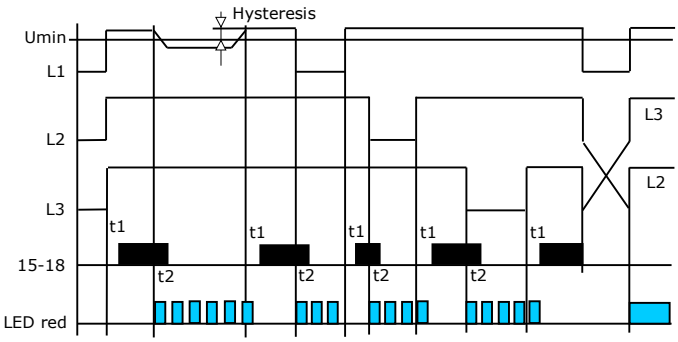
3-phase Monitoring DUW-32

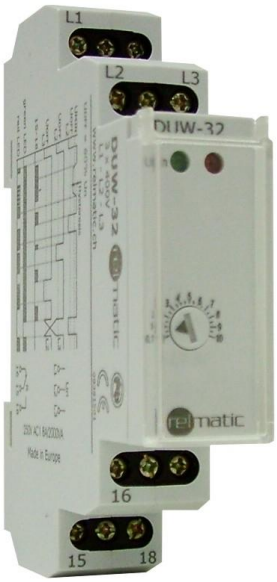
The three-phase monitoring relay DUW-32 monitors the three-phase mains for the correct phase sequence as well as for failure of a phase.

The device is supplied by the measuring circuit L1 – L2 – L3 – (N). The output relay is pulled up in normal operation. The output relay drops out if the phase sequence is violated, a phase fails or the voltage drops below 75% of the rated voltage. The error is displayed by the red LED. In order to bypass brief mains faults, the off time t2 can be delayed by 0.1 to 10 seconds with the potentiometer

- **3 / 4 monitoring ranges**
  - Phase sequence
  - Failure of a phase
  - Neutral conductor monitoring (version N)
  - Udervoltage < 75% of rated voltage
- **DIN 45 mm housing**
  The voltage monitoring relay can be installed with its standardised housing behind the cover panel through a 45-mm cutout. The function and switching status indicators (LED) are clearly visible, with the connections located in a protected position behind the cover panel.
- **Extremely compact size**
  It only requires a width of 17.5 mm in the switching cabinet.
- **8 A Changeover contact**
  The output contact is capable of switching an output of 2,500 VA (8 A / 250 V AC1).

Functional diagram





Function display

Normal status

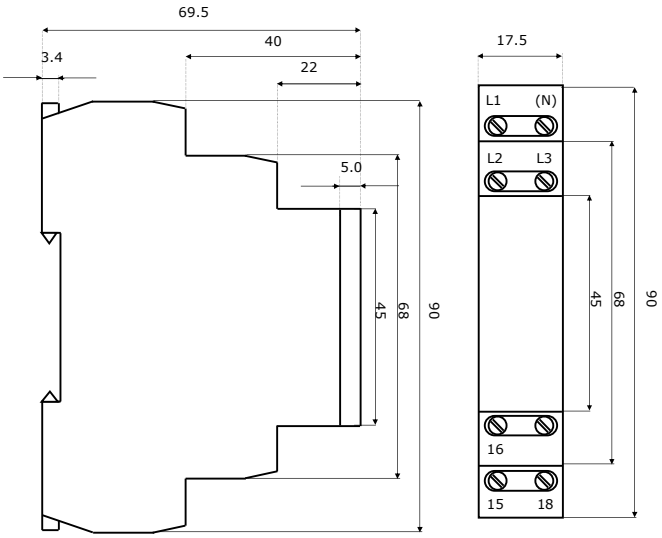
Green LED shining: All 3 phases are conneted Correctly and have a voltage of >75% of the rated voltage.

Fault display

Red LED flashing: Failure of a phase or dropping below 75% of the rated voltage

Technical data	DUW-32	DUW-32/N
Input side		
Supply and measuring terminals	L1 - L2 - L3	L1 - L2 - L3 - N
Supply and measuring voltage	3 x 400 V AC	3 x 400 / 230 V AC
max. continuous voltage	3 x 460 V AC	3 x 265 V AC
Maximum overvoltage < 1 ms	3 x 500 V AC	3 x 288 V AC
Power consumption	max. 2 VA	
Setting and accuracy		
Low range (Umin.)	75 % Un	
Hysteresis	5 %	
Time delay t1	max. 500 ms	
Time delay t2	adjustable 0.1 - 10 s	
Output side		
Number of contacts	1 changeover contact	
Switching voltage	250 V AC1 / 24 V DC	
Switching current / contact material	8 A / AC1 / AgNi	
max. peak current	10 A	
Switching capacity	2000 VA / AC1, 240 W / DC	
min. DC switching capacity	500 mW	
Output display	red / green LED	
General data		
Mechanical life	1 x 10^7	
Electric life at 12 A	1 x 10^5	
Ambient temperature	-20°C … +55°C	
Storage temperature	-30°C … +70°C	
Test voltage coil / contact	4 kV	
Mounting position	Any	
Fixing DIN rail	EN 50022-35	
Protection class of front	IP 40	
Voltage limitation class	III	
Degree of contamination	2	
Connection cross-section	Wire max 2x2.5 mm^2 or 1x4 mm^2 with sleeve max. 1x2.5 mm^2 or 2x1.5 mm^2	
Weight	67 g	66g
Standards	EN 60255-6, EN 61010-1	

Dimensional drawing



Device		Order no.
Monitoring relay	Phase sequence, phase failure and undervoltage monitoring <75% Un	DUW-32
Monitoring relay	Phase sequence, phase + neutral failure and undervoltage monitoring <75% Un	DUW-32/N