



General Specifications

Power ON delay	1 s ± 0.5 s or 6 s ± 0.5 s	Housing	DUB03 PUB03	22.5 x 80 x 99.5 mm 36 x 80 x 94 mm
Reaction time	(input signal variation from -20% to +20% or from +20% to -20% of set value)			
Alarm ON delay	< 100 ms	Material	PA66 or Noryl	
Alarm OFF delay	< 100 ms	Weight	Approx. 150 g	
Accuracy	(15 min warm-up time)	Screw terminals		
Temperature drift	± 1000 ppm/°C	Tightening torque	Max. 0.5 Nm acc. to IEC 60947	
Delay ON alarm	± 10% on set value ± 50 ms	Product standard	EN 60255-6	
Repeatability	± 0.5% on full-scale	Approvals	UL	
Indication for		CE Marking	L.V. Directive 2006/95/EC EMC Directive 2004/108/EC	
Power supply ON	LED, green	EMC		
Alarm ON	LED, red (flashing 2 Hz during delay time)	Immunity	According to EN 60255-26 According to EN 61000-6-2	
Output relay ON	LED, yellow	Emissions	According to EN 60255-26 According to EN 61000-6-3	
Environment				
Degree of protection	IP 20			
Pollution degree	2			
Operating temperature	-20 to 60°C, R.H. < 95%			
Storage temperature	-30 to 80°C, R.H. < 95%			

Mode of Operation

DUB03 and PUB03 monitor both AC and DC over or under voltage.

Example 1
(latch function disabled, ND relay)

The relay operates when the measured value exceeds (or drops below) the set level for more than the set delay time.

It releases when the voltage drops below (or exceeds) the set level (see hysteresis setting), or when power supply is interrupted.

Note
If the voltage drops below the minimum power supply voltage and the relay is set for undervoltage the output contact isn't necessarily ON.

Example 2
(latch function enabled, NE relay)

The relay operates and latches in operating position when the measured value exceeds (or drops below) the set level for more than the set delay time.

The relay releases when power supply is interrupted.

The red LED flashes until the delay time has expired or the measured value has dropped below the set point (see hysteresis setting).

Function/Range/Level and Time Delay Setting

Adjust the input range setting the DIP switches 1 and 2 as shown below.

Select the desired function setting the DIP switches 3 to 6 as shown below.

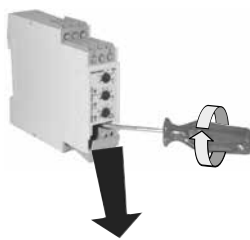
To access the DIP switches open the grey plastic cover as shown below.

Selection of level and time delay:

Upper knob:
Setting of hysteresis on relative scale: 0 to 30% on set value.

Centre knob:
Voltage level setting on relative scale: 10 to 110% on full scale.

Lower knob:
Setting of delay on alarm time on absolute scale (0.1 to 30 s).



Measuring range			
ON	OFF	24 V	
OFF	OFF	48 V	
ON	ON	115 V	
OFF	ON	240 V	

Relay working mode	
ON:	Normally De-Energized
OFF:	Normally Energized

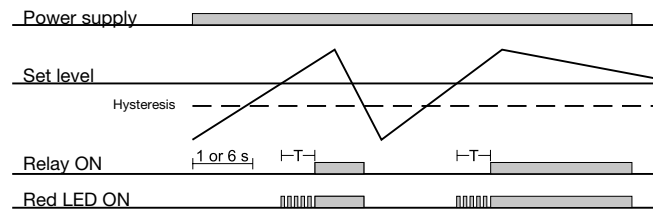
Power ON delay	
ON:	6 s ± 0.5 s
OFF:	1 s ± 0.5 s

Latch function	
ON:	Enabled
OFF:	Disabled

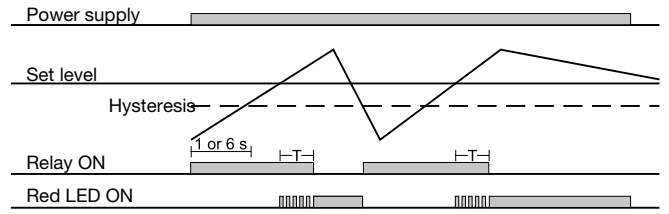
Monitoring function	
ON:	Over voltage
OFF:	Under voltage

Operation Diagrams

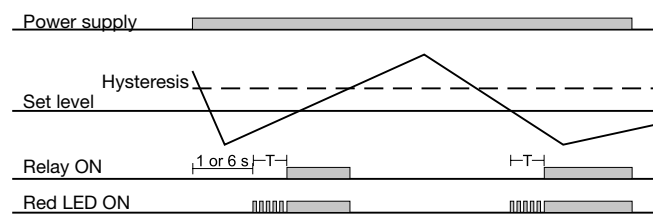
Over voltage - N.D. relay



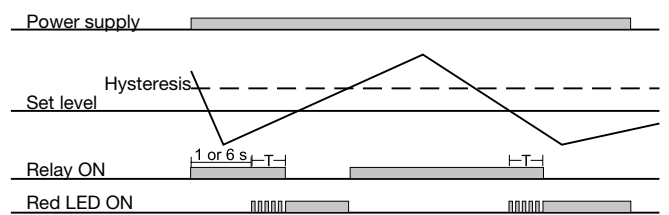
Over voltage - N.E. relay



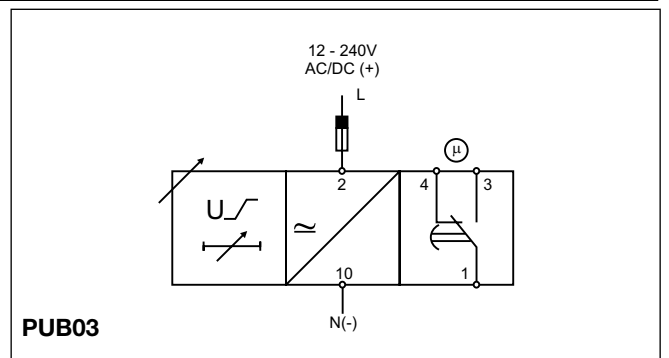
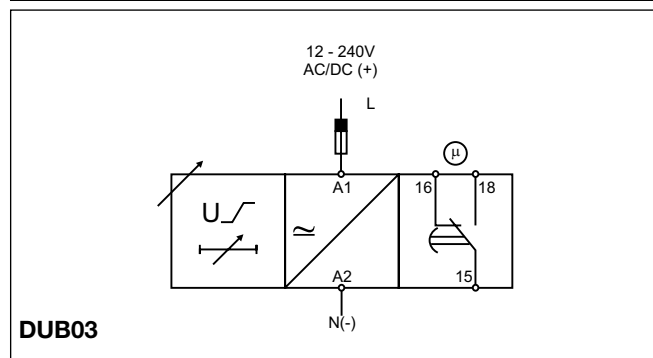
Under voltage - N.D. relay



Under voltage - N.E. relay



Wiring Diagrams



Dimensions

