



FEATURES

- Voltage Monitoring 1-Phase
- 30V, 60V, 300V AC/DC
- Measure 1.5V - 300V
- 2 x DPDT Output
- 22.5mm Wide Industrial Design

FUNCTIONS

- Overvoltage monitoring
- Overvoltage monitoring + latch
- Undervoltage monitoring
- Undervoltage monitoring + latch
- Window function
- Window function + latch



SPECIFICATIONS

Supply circuit

Terminals/Connections	A1-A2 (galvanically separated)
Supply Voltage	24-240V AC/ DC
Supply Voltage tolerance	-20% .. +25% (DC), -15%..+10% (AC)
Rated Frequency	48 ... 400Hz (24-240VAC), 16-48Hz (48-240VAC)
Power Consumption	1W (4.5 VA)
Duty Cycle	100%
Reset Time	500ms
Drop-out Voltage	9.6VDC
Overvoltage Category	III (IEC 60661-1)
Rated Surge Voltage	4kV

Time Delays

Start-up Suppression time	A1-A2 (galvanically separated)
Trip Delay	24-240V AC/ DC

Indicators

Green LED ON	Supply Voltage present
Green LED Flashes	Start-up Suppression Time
Yellow LED ON/OFF	Indicator Relay Output
Red LED ON/OFF	Failure of corresponding threshold
Red LED Flashes	Indicator tripping delay of corresponding threshold

Mechanical/ Environmental Specs

Housing Material	V2
Protection Degree	IP40 (Enclosure) IP20 (Terminals)
Mounting	DIN Rail
Mounting Position	any
Dimensions	22.5 x 90 x 108 mm
Stripping Length	7 mm
Terminal Torque	1.0 Nm (8.5 lb.in)
Wire size Terminals	20-14AWG
Ambient Temperature IEC	-25..+55°C (IEC 60068-1)
Ambient Temperature UL	-25..+40°C (UL 508)
Storage Temperature	-25..+70 °C
Transport Temperature	-25..+70 °C
Relative Humidity	15%..85% (IEC 60721-3-3 class 3K3)
Vibration Resistance	10..55 Hz 0.35 mm (IEC 60068-2-6)
Shock Resistance	15 g 11 ms (IEC 60068-2-27)
Pollution Degree	3 (IEC 60664-1)
Installation Altitude	Up to 2000 m above sea level

Output Circuit

Output Configuration	2 x DPDT (C/O)
Terminals Output 1	15-16-18
Terminals Output 2	25-26-28
Output Contact Rating	5A/ 250VAC
Mechanical Life	20 x 10 ⁶ Switching cycles
Electrical Life	2 x 10 ⁵ Switching cycles (1000 VA)
Utilization Category	AC 15
Switching Frequency	max. 60/min @ 100 VA resistive load max. 6/min @ 1000 VA resistive load (IEC 60947-5-1)
Rated Surge Voltage	4kV
Overvoltage Category	III (IEC 60664-1)

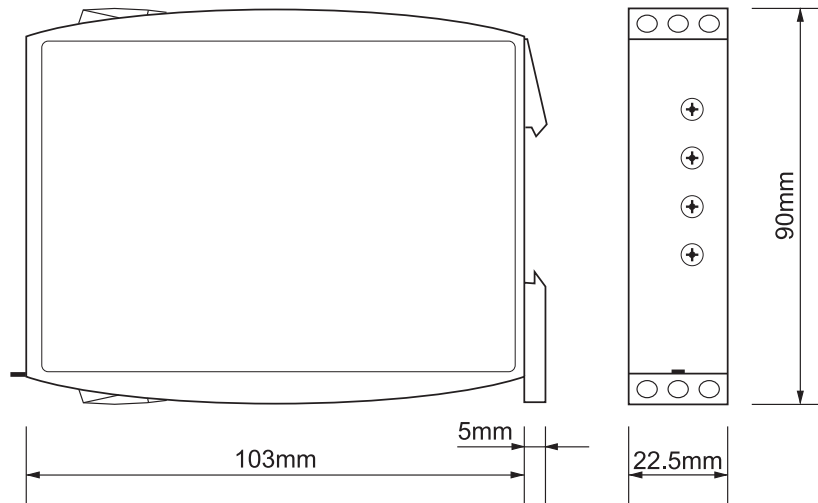
Measuring circuit

Measurand	Voltage, 1-Phase, 30V, 60V, 300V AC/DC (16.6-400Hz)
Measuring Range 1	30 VAC/DC
Terminals Range	E-F1+
Overload Capacity 1	100V
Input Resistance 1	45 kΩ
Measuring Range 2	60 VAC/DC
Terminals Range 2	E-F2+
Overload Capacity 2	150V
Input Resistance 2	4100 kΩ
Measuring Range 3	300 VAC/DC
Terminals Range 3	E-F3+
Overload Capacity 3	440V
Input Resistance	470 kΩ
Switching Threshold Minimum	5% - 95% I _n
Switching Threshold Maximum	10% - 100% I _n
Rated Surge Voltage	4kV
Overvoltage Category	III (IEC 60664-1)

Accuracy

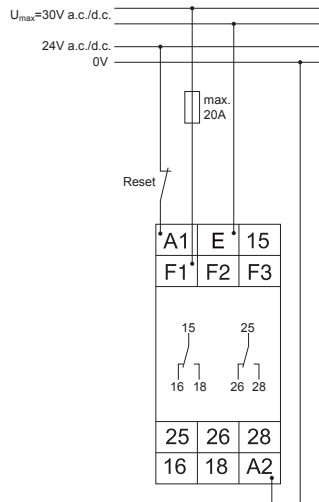
Base Accuracy	≤5 % (from full scale)
Adjustment Accuracy	≤5 % (from full scale)
Repetition Accuracy	≤2 %
Voltage Influence	N/A
Temperature Influence	≤0.05 % / °C
Frequency Response	-10%..+5% (16.6..400 Hz)

Dimensions

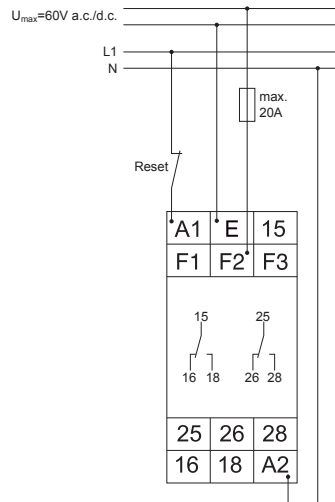


Wiring

Range 30V, supply voltage
24V a.c./d.c. and fault latch



Range 60V, supply voltage
230V a.c. and fault latch



Range 300V, supply voltage
24V a.c./d.c. and fault latch

