

Features

- It is used to monitor the value of alternating or direct voltage in 1-phase circuits.
- Supply voltage from monitored voltage.
- Monitors voltage exceeding the upper voltage level (U_{max}) and falling below the lower voltage level (U_{min}) – according to the selected function.
- Smooth adjustment of both voltage levels – the lower level U_{min} is set in % of the upper level U_{max} .
- Adjustable time delay (to eliminate short-term voltage drops and spikes).
- Option to select functions with fault state memory (Latch).
- The fault state memory can be reseted by the control input (R).
- Measures true root mean square value of the voltage - TRUE RMS.
- Type HRN-32/2 has an independent output contact for each voltage level.

RS PRO Monitoring Relay

766915



RS PRO is the own brand of RS. The RS PRO Seal of Approval is your assurance of professional quality, a guarantee that every part is rigorously tested, inspected, and audited against demanding standards. Making RS PRO the Smart Choice for our customers.

Product description

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Supply and measuring

Supply monitored terminals:	A1-A2
Supply/monitored voltage:	AC/DC 48 – 276 V (AC 50-60 Hz)
Consumption (max.):	2.5 VA / 0.55 W
Upper level setting (U_{max}):	AC 160 – 276 V
Lower level setting (U_{min}):	30 – 95 % U_{max}
Max. permanent voltage:	AC 276 V
Peak overload (1 s):	AC 290V
Time delay (d):	300 ms
Time delay (t):	adjustable, 0.5 -10 s

Accuracy

Setting accuracy (mech.):	5 % – mechanical setting
Repeat accuracy:	< 1 %
Temperature dependency:	< 0.1 %/°C (°F)
Hysteresis (fault to OK):	5 % (functions O1, U1, W) $U_{max} - U_{min}$ (functions O2, U2, U3)

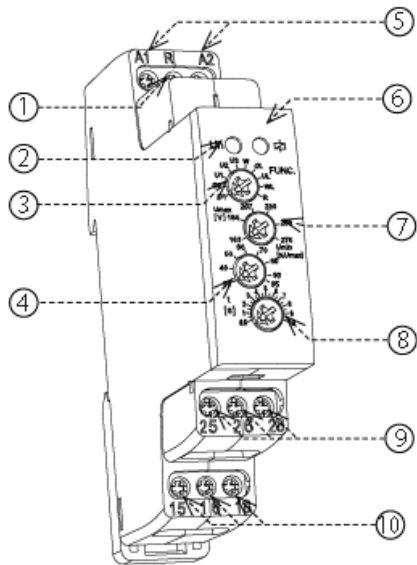
Output

Contact type:	1 × changeover
Contact material:	AgNi
Current rating:	16 A/AC1
Breaking capacity:	4000 VA/AC1, 384 W/DC1
Switching voltage:	250 V AC/24 V DC
Power dissipation (max.):	1.2 W
Mechanical life:	10.000.000. ops.
Electrical life (AC1):	100.000 ops.

Other information

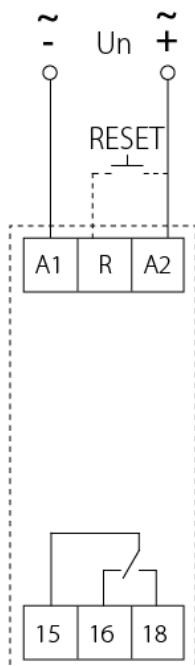
Operating temperature:	−20 .. +55 °C (−4 .. 131 °F)
Storage temperature:	−30 .. +70 °C (−22 .. 158 °F)
Dielectric strength:	AC 4 kV (supply – output)
Operating position:	any
Mounting:	Din rail EN 60715
Protection degree:	IP40 front panel / IP20 terminals
Overvoltage category:	III.
Pollution degree:	2
Cross-wire section – solid/ stranded with ferrule (mm ²):	max. 1× 2.5, 2× 1.5 max. 1× 2.5 (AWG 14)
Dimensions:	90 × 17.6 × 64 mm (3.5" × 0.7" × 2.5")
Weight:	60 g (2.11 oz)
Standards:	EN 60255-1, EN 60255-26, EN 60255-27

Approvals

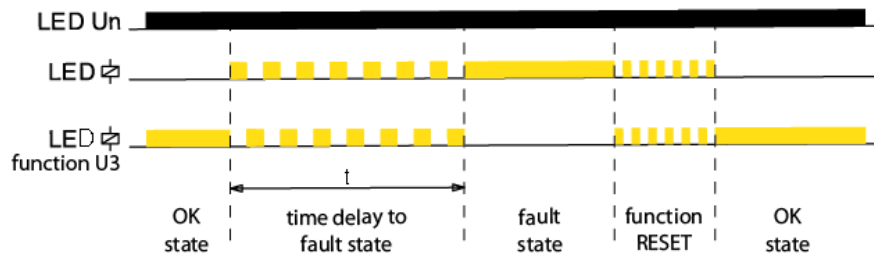


1. Control input terminal (R)
2. Indication of supply/monitored voltage
3. Function settings
4. Lower level setting (Umin)
5. Supply/monitored voltage terminals (A1-A2)
6. Indication of operating states
7. Upper level setting (Umax)
8. Time delay setting
9. Output contact 2 (25-26-28), only HRN-3x/2
10. Output contact 1 (15-16-18)

Connection



Indication of operating states



Function

