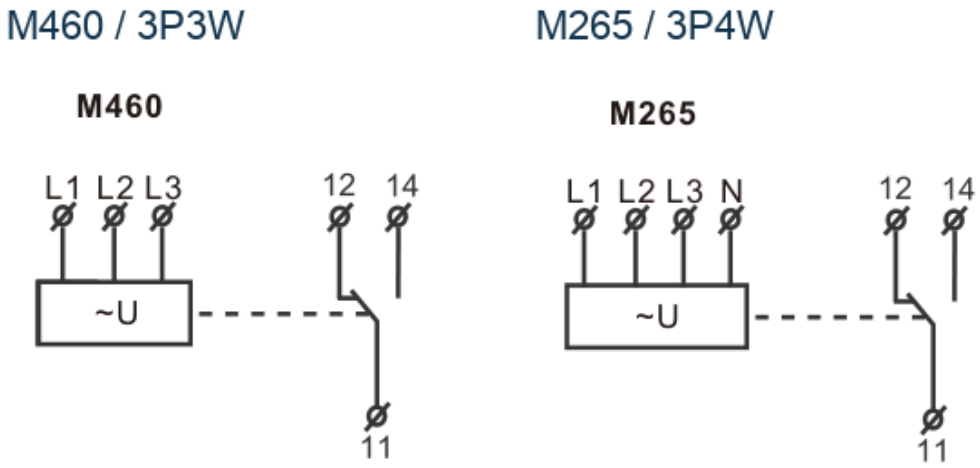
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RV8-08X Anti-Harmonic Three-Phase Voltage Monitoring Relay

NewTrend RV8-08X monitors phase sequence, phase failure, overvoltage, undervoltage and voltage asymmetry in a three-phase control circuit. The front Un dial selects the nominal voltage. Protection settings are fixed at +15% overvoltage, -15% undervoltage, 8% asymmetry and 2 seconds trip delay. Choose the M460 three-wire or M265 four-wire hardware version. The 18mm relay provides 1 SPDT contacts rated 10A (AC-1). Anti-harmonic design.

Parameter	Specification
Model	RV8-08X
Function	Phase sequence, phase failure, overvoltage, undervoltage and asymmetry
Design	Anti-harmonic type
Voltage-system versions	M460: 3P3W; M265: 3P4W with neutral
M460 rated voltage range	AC 220-460V, phase-to-phase
M265 rated voltage range	AC 127-265V, phase-to-neutral
M460 nominal-voltage dial	220 / 230 / 240 / 380 / 400 / 415 / 440 / 460V (phase-to-phase)
M265 nominal-voltage dial	127 / 132 / 138 / 220 / 230 / 240 / 254 / 265V (phase-to-neutral)
Overvoltage / undervoltage thresholds	Fixed +15% / -15% of selected Un
Asymmetry threshold	Fixed 8%
Trip delay	Fixed 2 seconds
Voltage hysteresis	2%
Phase-failure value	70% of selected Un; M460 minimum 165V
M460 monitoring / supply terminals	L1-L2-L3 / L1-L2
M265 monitoring / supply terminals	L1-L2-L3-N / L1-N
Supply frequency	45-65Hz
Measurement	True RMS
M460 measuring range	176-552V
M265 measuring range	101-318V
Measurement error	Maximum 1%
Power-up delay	0.5 seconds
Reset time	1000ms
Temperature coefficient	0.05%/degree C at 20 degrees C
Supply / phase-state indication	Green LED
Output indication	Red LED
Output contacts	1 SPDT
Contact rating	10A (AC-1)
Switching voltage	250VAC / 24VDC
Minimum DC breaking power	500mW
Mechanical life	10,000,000 operations
Electrical life (AC-1)	100,000 operations
Operating temperature	-20 to +55 degrees C
Storage temperature	-35 to +75 degrees C
Mounting	DIN rail to EN/IEC 60715; 1 module
Protection	IP40 front panel; IP20 terminals
Operating position	Any
Overvoltage category / pollution degree	III / 2
Maximum conductor size	Solid: 1 x 2.5mm2 or 2 x 1.5mm2; with sleeve: 1 x 2.5mm2 (AWG 12)
Body dimensions	90 x 18 x 64mm
Weight	61-66g by version
Terminal tightening torque	0.8Nm

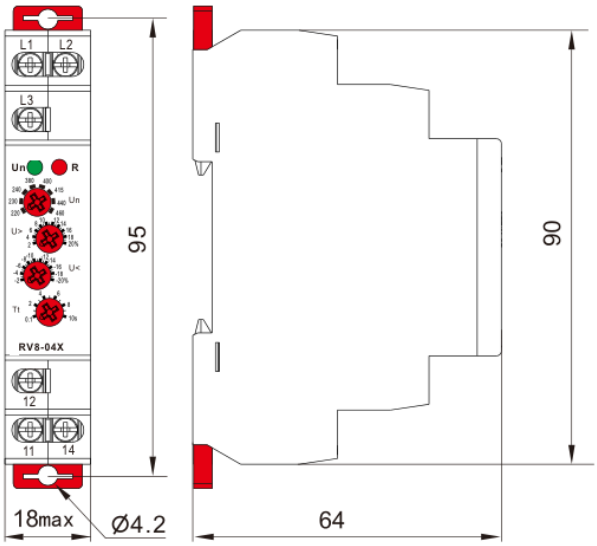
Connections and operation



Set the nominal-voltage dial for the selected hardware system. Overvoltage and undervoltage thresholds are fixed at +15% and -15% of Un; voltage asymmetry is fixed at 8%.

The 08 function code uses a fixed 2-second trip delay. Phase-failure and phase-sequence monitoring are also provided.

Dimensions and adjustment





Body: 90 x 18 x 64mm. Overall height: 95mm. Fixing holes: 4.2mm.

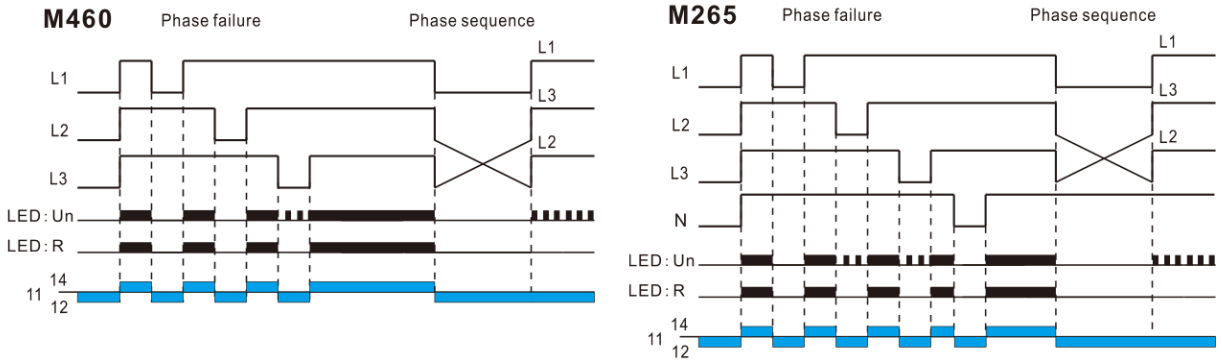
Common housing dimensions; RV8-04X front view shown. Product photograph shows 3P4W / AC 127-265V.

Select the Un dial position to match the actual nominal system voltage. M460 supply uses L1-L2; M265 supply uses L1-N. The fixed 08-code thresholds are not adjustable. The connection and phase-state drawings apply to the shared terminal arrangement; the drawings do not add adjustable functions.

Installation

Installation and wiring must be performed by qualified electricians in accordance with applicable safety standards. Isolate the circuit before wiring and use the appropriate electrical-waste collection route.

Phase-failure and phase-sequence operation



M460: three-phase, three-wire monitoring. M265: three-phase monitoring with neutral. Un: supply indication. R: output state. The drawings show phase loss and reverse phase sequence.