

Output circuit - contact data

- Multifunctions monitoring relays (DC and AC voltage monitoring in 1-phase network, with adjustable thresholds)
- Minimum value monitoring with the histeresis mode
- Supply voltage = monitoring voltage
- Output: 1 CO (1 changeover contact)
- Cover modular, width 17,5 mm
- Direct mounting on 35 mm rail mount acc. to EN 60715
- Recognitions, certifications, directives: RoHS, CE

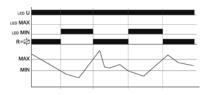
Number and type of contacts		100
Rated voltage		250 V AC
Max. breaking capacity AC1		1 250 VA (5 A / 250 V AC)
Max. operating frequency		
at resistive load 100 VA		3 600 cycles/hour
• at resistive load 1 000 VA		360 cycles/hour
Input circuit		
Supply voltage		= monitoring voltage
Rated voltage AC		24, 230 V
DC		24 V
Must release voltage		determined by undervoltage detection (see measured circuit)
Operating range of supply voltage		0,751,2 Un
Rated power consump		230 V AC: 10,0 VA / 0,6 W
Deners of summh from	DC	24 V AC: 1,3 VA / 0,8 W 24 V DC: 0,6 W
Range of supply frequ	iency AC	4863 Hz
Duty cycle		100% DC or AC sinus, 4863 Hz
Measuring circuit	 measuring variable measuring inputs 	
	• measuring inputs	= supply voltage AC: 230 V terminals E-F3
		AC: 230 V terminals E-F3
		DC: 24 V terminals E-F2
	 overload capacity 	$\geq 1,2 U_n$
	swiching threshold	MIN: 0,751,15 Un MAX: 0,81,2 Un
	hysteresis H	see printing on the unit
Insulation according to EN 60664-1		4.000 \/
Rated surge voltage Overvoltage category		4 000 V 1,2 / 50 μs
Insulation pollution degree		III 2 if built-in: 3
General data		0
Electrical life • resistive AC1		> 2 x 10 ⁵ 1 000 VA
Mechanical life (cycles)		> 2 x 10 ⁷
Dimensions (L x W x H)		87 x 17,5 x 65 mm
Weight		72 g
Ambient temperature • storage		-25+70 °C
(non-condensation and/or icing) • operating		-25+55 °C IP 20 EN 60529
Cover protection category Relative humidity		IP 20 EN 60529 1585%
Shock resistance		
Vibration resistance		15 g 11 ms 0,35 mm DA 1055 Hz
Meassuring circuit data		
Functions		UNDER, WIN minimum value monitoring with the histeresis mode
Base accuracy		$\pm 5\%$ (calculated from the final range values)
Setting accuracy		$\pm 5\%$ (calculated from the final range values)
Repeatability		$\pm 2\%$
Temperature influence		± 1% / °C
Recovery time		500 ms
LED indicator		green LED U ON - indication of supply voltage U
		red LEDs MIN and MAX ON/OFF - indication of failure 0
		yellow LED R ON/OFF - output relay status
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1 Indication of relay status - according to the set threshold.

MR-EU1W1P monitoring relays

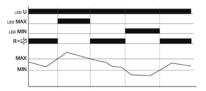
Functions

UNDER - Undervoltage monitoring.



When the supply voltage U is applied, the output relay R switches into on-position, if the measured voltage is beyond the MIN-value. When the measured voltage falls below the MIN-value, the output relay R switches into off-position. The output relay R switches into on-position again, if the voltage exceeds the MAX-value.

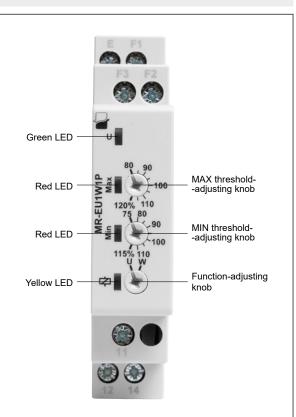
WIN - Voltage monitoring in windowfunction between MIN and MAX values.



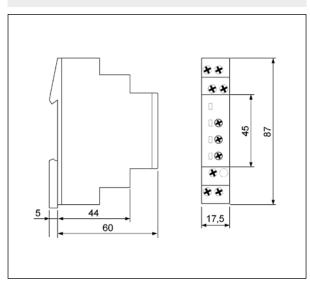
When the supply voltage U is applied, the output relay R switches into on-position, if the measured voltage is within the adjusted window. When the measured voltage left the window between MIN and MAX, the output relay R switches into off-position. The output relay R switches into on-position again, if the voltage re-enter the adjusted window.

U - supply voltage; R - output state of the relay; MIN, MAX - relay status

Front panel description

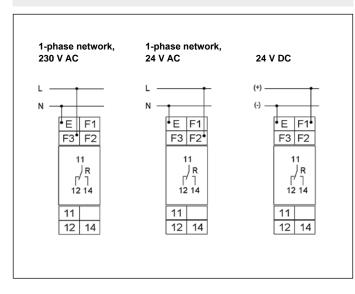


Dimensions



Preipol ® s.a.

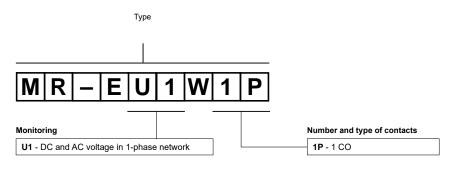
Connection diagrams



Mounting

Relays **MR-EU1W1P** are designed for direct mounting on 35 mm rail mount acc. to EN 60715. Operational position - any. **Terminals** - **cross section of the connection cables:** $1 \times 0.5 \dots 2.5 \text{ mm}^2$ with/without multicore cable end, $1 \times 4 \text{ mm}^2$ without multicore cable end, $2 \times 0.5 \dots 1.5 \text{ mm}^2$ with/without multicore cable end, $2 \times 2.5 \text{ mm}^2$ flexible without multicore cable end.

Ordering codes



Example of ordering code:

MR-EU1W1P

monitoring relay **MR-EU1W1P**, multifunction (relay perform 2 functions), cover - modular, width 17,5 mm, one changeover contact, rated monitoring voltages: AC - 230 V, 24 V; DC - 24 V