RPC-2A-UNI time relays



Output circuit - contact data

- · Operation following supply voltage decay with the operational relay on, contact holding time up to 10 minutes
- Multifunction time relays (6 time functions; 10 time ranges)
- Cadmium free contacts 2 CO AC/DC input voltages
- Cover modular, width 17,5 mm Direct mounting on 35 mm rail mount acc. to EN 60715 • Applications: in low-voltage systems
- · Compliance with standard EN 61812-1
- Recognitions, certifications, directives: RoHS, CE [][

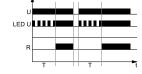
Output circuit - contact data					
Number and type of contacts	2 CO				
Contact material	AgSnO ₂				
Max. switching voltage AC	300 V				
Rated load AC1	8 A / 250 V AC				
DC1	8 A / 24 V DC; 0,3 A / 250 V DC				
Rated current	8 A / 250 V AC				
Max. breaking capacity AC1	2 000 VA				
Min. breaking capacity	1 W 10 mA				
Contact resistance	≤ 100 mΩ				
Max. operating frequency					
• at rated load AC1	600 cycles/hour				
Input circuit					
Rated voltage AC: 50/60 Hz AC/DC					
Must release voltage	$\geq 0,1 U_n$				
Operating range of supply voltage	0,91,1 Un				
Rated power consumption AC					
DC) -				
Range of supply frequency AC	4863 Hz				
Insulation according to EN 60664-1					
Insulation rated voltage	250 V AC				
Rated surge voltage	4 000 V 1,2 / 50 μs				
Overvoltage category					
Insulation pollution degree	2				
Flammability class	V-0 UL 94				
Dielectric strength • input - output	4 000 V AC type of insulation: basic				
contact clearance	1 000 V AC type of clearance: micro-disconnection				
• pole - pole	2 000 V AC type of insulation: basic				
General data					
Electrical life • resistive AC1	> 0,5 x 10 ⁵ 8 A, 250 V AC				
Mechanical life (cycles)	> 3 x 10 ⁷				
Dimensions (L x W x H)	90 0 x 17,5 x 64,6 mm				
Weight	72 g				
Ambient temperature • storage	-40+70 °C				
(non-condensation and/or icing) • operating	-20+50 °C				
Cover protection category	IP 20 EN 60529				
Relative humidity	up to 85%				
Shock / vibration resistance	15 g / 0,35 mm DA 1055 Hz				
Time module data					
Functions	E, A, nWa, nWu, nWuWa, nWs				
Time ranges	1 s @; 10 s; 20 s; 30 s;				
Thine ranges	1 min.; 1,5 min.; 2 min.; 3 min.; 5 min.; 10 min.				
Timing adjustment	smooth - $(0,11)$ x time range				
Setting accuracy	± 5% © @				
Repeatability	± 0,5% @				
Values affecting the timing adjustment	temperature: ± 0,05% / °C supply voltage: ± 0,01% / V				
Recovery time	$AC: \le 400 \text{ ms}$ $DC: \le 150 \text{ ms}$				
LED indicator	green LED U ON - indication of supply voltage U				
	green LED U flashing - measurement of T time				
	yellow LED R ON/OFF - output relay status				
	yenow LED R ON/OFF - output relay status				

• Length with 35 mm rail catches: 98,8 mm. ❷ For first range setpoint (1 s) setting accuracy and repeatability are smaller than the given ones in technical parameters (significant influence of the operational relay operating time, processor start-time, and the moment of supply switching as referred S Calculated from the final range values, for the setting direction from minimum to maximum. to the AC supply course).



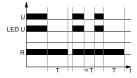
Time functions

E - ON delay.



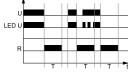
On applying the supply voltage U the set interval T begins - off-delay of the output relay R. After the interval T has lapsed, the output relay R switches on and remains on until supply voltage U is interrupted.

A - OFF delay without supply voltage.



When the supply voltage U is supplied, the output relay R switches into on-position (green LED U illuminated). If the supply voltage is interrupted (green LED U not illuminated), the set interval T begins. After the set interval T has lapsed, the output relay R switches into off-position. If the supply voltage is reconnected before the interval T has lapsed, the interval already measured is erased and is restarted with the next cycle.

nWa - Maintained single shot trailing edge.

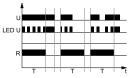


When the supply voltage U is supplied, the output relay R remains in off-position (green LED U illuminated). As soon as the supply voltage is interrupted, the output relay switches into on-position and the set interval T begins (green LED not illuminated). After the set interval T has lapsed, the output relay switches into off-position. When the supply voltage is reconnected before the interval T has lapsed, the unit continues to perform the actual single shot.

U - supply voltage; R - output state of the relay;

 ${\bf T}$ - measured time; ${\bf t}$ - time axis

nWu - Maintained single shot leading edge.



When the supply voltage U is applied (green LED U illuminated), the output relay R switches into on-position and the set interval T begins (green LED U flashes). After the interval T has lapsed, the output relay switches into off-position. This status remains until the supply voltage is interrupted. If the supply voltage is reconnected before the interval T has lapsed, the unit continues to perform the actual single shot.

nWuWa - Maintained single shot leading and trailing edge.

1							
U							
LED U							
		_		_			
_							
R				_			
		_	_	_		_	-
	1.1						t

When the supply voltage U is applied, the output relay R switches into on-position and the set interval T begins (green LED U illuminated). After the interval T has lapsed, the output relay switches into off-position. As soon as the supply voltage is interrupted the output relay switches into on-position again, and the set interval T begins (green LED not illuminated). After the set interval T has lapsed, the output relay switches into off-position. If the supply voltage is interrupted (nWu) or reconnected (nWa) before the interval T has lapsed, the unit continues to perform the actual single shot.

nWs - Latching ON delay.



Applying the supply voltage U triggers the operation with delay in switching on the R contact by the set T interval. The R contact is switched on after the delay interval has lapsed. Interrupting the supply voltage while the R contact starts measurement of the T interval after which the R contact is to be switched off. After the T interval of switching the R contact off has lapsed, the R contact is switched off. Interruption of the supply voltage U while ON-delay by the set T interval is being measured for the R contact stops measurement of the T interval and switches the R contact is switched off. Applying the supply voltage U when the T interval is being measured for the R contact to be switched off stops measurement of the interval, switches the R contact off, and starts measurement of ON-delay for the R contact.

Additional functions

Green supply diode:

- when supply of the relay is on: it is lit permanently when the time is not being measured. In course of the T time measurement, it flashes at 500 ms period where it is lit for 50% of the time, and off for 50% of the time, - when supply of the relay is off: it is not illuminated.

Yellow diode R:

- when the supply voltage is on: the diode is permanently illuminated for the R relay switched on,

- when the supply voltage is off, and the output relay R is on: the time range 1 s - it is illuminated permanently; time ranges 10 s, 20 s, 30 s: a blink of 30 ms every 1 s; time ranges longer than 1 min: a blink of 30 ms every 10 s.

Adjustment of the set values:

- no change of the time value and range is possible when the relay operates. Any chnage of the time setting shall be read only after the supply voltage has been interrupted and reconnected,

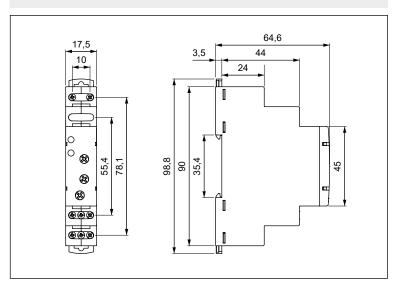
- no change of the function is possible in the course of the relay's operation. Any change of the settings of the relay shall be read only after the supply voltage has been switched off and on again.

Release: depending on the function to be performed, the relay is released with the supply voltage or by connection of the S contact to the A1 line. For DC supply, the positive pole must be connected to the A1 line. The level of the S contact activation is adjusted automatically depending on the supply voltage.

 $\pmb{Supply}:$ the relay may be supplied with DC voltage or AC voltage 48...63 Hz of 10,8...264 V.

Connection diagram

Dimensions



$(+)A1 \circ - \circ A2(-)$ $15 \circ - 16$ $25 \circ - 26$ 2 CO



RPC-2A-UNI time relays

Green LED Yellow LED Tillow LED T

Mounting

Relays **RPC-2A-UNI** are designed for direct mounting on 35 mm rail mount acc. to EN 60715. Operational position - any. **Connections:** max. cross section of the cables: 1 x 2,5 mm² (1 x 14 AWG), stripping length: 6,5 mm, max. tightening moment for the terminal: 0,5 Nm.



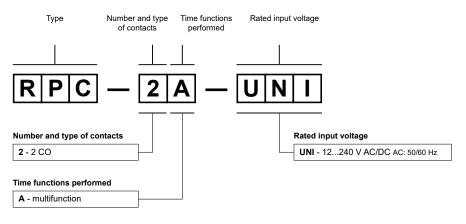
Two catches: easy mounting on 35 mm rail, firm hold (top and bottom).



Mounting wires in clamps: universal screw (cross-recessed or slotted head).

Ordering codes

Front panel description



Example of ordering codes:

RPC-2A-UNI

time relay **RPC-2A-UNI**, multifunction (relay perform 6 functions), cover - modular, width 17,5 mm, two changeover contacts, contact material AgSnO₂, rated input voltage 12...240 V AC/DC AC: 50/60 Hz

PRECAUTIONS:

1. Ensure that the parameters of the product described in its specification provide a safety margin for the appropriate operation of the device or system and never use the product in circumstances which exceed the parameters of the product. 2. Never touch any live parts of the device. 3. Ensure that the product has been connected correctly. An incorrect connection may cause malfunction, excessive heating or risk of fire. 4. In case of any risk of any serious material loss or death or injuries of humans or animals, the devices or systems shall be designed so to equip them with double safety system to guarantee their reliable operation.



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 H3CR-A8-301 AC24-48/DC12-48
 H3CR-H8RL AC/DC24 S
 H7AN-2D DC12-24

 H5CN-XANS DC12-48
 H3CA-8 DC110
 H7AN-W4DM DC12-24
 H7AN-4DM DC12-24
 H7AN-RT6M AC100-240

 H3CA-8H AC200/220/240
 MTR17-BA-U240-116
 PM4HSDM-S-AC240VS
 PM4HSDM-S-AC240VSW
 PO-405
 600DT-CU
 H3Y-2-B DC24

 30S
 PM4HF8-M-DC24V
 PM4HS-H-DC12VSW
 H3Y-2-B AC100-120 10S
 H3Y-2-B AC100-120 30S
 H3C-R
 H3CR-A8-301 24-48AC/12

 48DC
 H3CR-A8E 24-48AC/DC
 H3CR-F8 100-240AC/100-125DC
 H3CR-F8 100-240AC/100-125DC
 H3CR-F8 100-240AC/100-125DC