

## 22.5 mm - 2 Relays 8A RX2R1 Part number 88866385



- Relay output
- Multi-function or mono-function
- Multi-range
- Multi-voltage
- Screw terminals
- LED status indicator

### Part numbers

|            | Type  | Functions                              | Timing        | Output             | Nominal rating | Connections     | Supply voltage          |
|------------|-------|----------------------------------------|---------------|--------------------|----------------|-----------------|-------------------------|
| 88 866 385 | RX2R1 | Ad - Ah - N - O - P - Pt - TI - Tt - W | 0,1 s → 100 h | 2 changeover relay | 2 x 8 A        | Screw terminals | 24 V DC / 24 → 240 V AC |

### Specifications

#### Timing

|                                              |                                                  |
|----------------------------------------------|--------------------------------------------------|
| Timing ranges (7 ranges)                     | 1 s - 10 s - 1 min - 10 min - 1 h - 10 h - 100 h |
| Repetition accuracy with constant parameters | ± 0.5 % (IEC/EN 61812-1)                         |
| Drift Temperature                            | ± 0,05 % / °C                                    |
| Drift Voltage                                | ± 0,2 % / V                                      |
| Display accuracy according to IEC/EN 61812-1 | ± 10 % / 25 °C                                   |
| Immunity from micro power cuts : typical     | < 10 ms                                          |

#### Supply

|                            |                      |
|----------------------------|----------------------|
| Multi-voltage power supply | Depending on version |
| Frequency (Hz)             | 50 / 60              |
| Operating factor           | 100 %                |

#### Output specification

|                                                        |                                                        |
|--------------------------------------------------------|--------------------------------------------------------|
| Rated power                                            | 2000 VA/80 W                                           |
| Maximum breaking current                               | 8 AAC 250 VAC resistive<br>8 ADC 30 VDC resistive      |
| Minimum breaking current                               | 10 mA / 5 VDC                                          |
| Voltage breaking capacity                              | 250 VAC / 8 AAC resistive<br>250 VDC / 0,3 A resistive |
| Electrical life (operations)                           | 10 <sup>5</sup><br>8 A 250 VAC resistive               |
| Mechanical life (operations)                           | 10 x 10 <sup>6</sup>                                   |
| Breakdown voltage acc. to IEC/EN 61812-1               | 2,5 kV / 1 min / 1 mA / 50 Hz                          |
| Impulse voltage acc. to IEC/EN 60664-1, IEC/EN 61812-1 | 5 kV<br>wave 1.2 / 50 µs                               |

#### General characteristics

|                                                                                              |                                                                                                    |
|----------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------|
| Conformity to standards                                                                      | IEC/EN 61812-1<br>IEC/EN 61000-6-1<br>IEC/EN 61000-6-2<br>IEC/EN 61000-6-3<br>IEC/EN 61000-6-4     |
| Certifications                                                                               | CE, UL, cUL, CSA, GL                                                                               |
| Temperature limits use (°C)                                                                  | -20 → +60                                                                                          |
| Temperature limits stored (°C)                                                               | -30 → +60                                                                                          |
| Installation category<br>(acc. to IEC/EN 60664-1)                                            | Voltage surge category III                                                                         |
| Creepage distance and clearance acc. to IEC/EN 60664-1                                       | 4 kV / 3 mm                                                                                        |
| Protection (IEC/EN 60529)                                                                    | IP20<br>IP40<br>IP50                                                                               |
| Degree of protection acc. to IEC/EN 60529 Front face                                         | IP50                                                                                               |
| Vibration resistance<br>acc. to IEC/EN 60068-2-6                                             | 20 m/s <sup>2</sup> 10 Hz → 150 Hz                                                                 |
| Relative humidity no condensation acc. to IEC/EN 60068-2-30                                  | 93 % non-condensing                                                                                |
| Electromagnetic compatibility - Immunity to electrostatic discharges acc to IEC/EN 61000-4-2 | Level III (Air 8 kV / Contact 6 kV)                                                                |
| Immunity to radiated, radio-frequency, electromagnetic field acc. IEC/EN 61000-4-3           | Level I<br>(1 V/m : 2,0 G Hz → 2,7 G Hz)<br>Level II<br>(3 V/m : 1,4 G Hz → 2,0 G Hz)<br>Level III |

|                                                                                  |                                                                                                      |
|----------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------|
|                                                                                  | (10 V/m : 80 M Hz →1 G Hz)                                                                           |
| Immunity to rapid transient bursts acc. to IEC/EN 61000-4-4                      | Level III (direct 2 kV / Capacitive coupling clamp 1 kV)                                             |
| Immunity to shock waves on power supply acc. to IEC/EN 61000-4-5                 | Level III (2 kV / common mode 2 kV/residual current mode 1 kV)                                       |
| Immunity to radio frequency in common mode acc. to IEC/EN 61000-4-6              | Level III (10V rms : 0.15 M Hz to 80 M Hz)                                                           |
| Immunity to voltage dips and breaks acc. to IEC/EN 61000-4-11                    | 0 % residual voltage, 1 cycle<br>70 % residual voltage, 25/30 cycles                                 |
| Mains-borne and radiated emissions acc. to EN 55022 (CISPR22), EN55011 (CISPR11) | Class B                                                                                              |
| Fixing : Symmetrical DIN rail                                                    | 35 mm                                                                                                |
| Terminal capacity Single-wire without ferrule                                    | 1 x 0,5 →3,3 mm <sup>2</sup><br>(AWG 20 →AWG 12)<br>2 x 0,5 →2,5 mm <sup>2</sup><br>(AWG 20 →AWG 14) |
| Terminal capacity Multi-wire with ferrule                                        | 1 x 0,5 →2,5 mm <sup>2</sup><br>(AWG 20 →AWG 14)<br>2 x 0,5 →1,5 mm <sup>2</sup><br>(AWG 20 →AWG 16) |
| Housing material                                                                 | Self-extinguishing                                                                                   |
| Shock test IEC/EN 60068-2-27                                                     | 15 g - 11 ms                                                                                         |
| Short interruption on power line acc to IEC/EN 61000-4-11                        | 0 % residual voltage, 250/300 cycles                                                                 |

Timing

|                                                 |        |
|-------------------------------------------------|--------|
| Minimum pulse duration typically                | 30 ms  |
| Minimum pulse duration typically (under load)   | 100 ms |
| Maximum reset time by de-energisation typically | 120 ms |

Supply

|                     |                                                                                           |
|---------------------|-------------------------------------------------------------------------------------------|
| Operating range     | 85 →110 % Un                                                                              |
| Max. absorbed power | 15 VA (400 VAC)<br>50 VA (240 VAC)<br>0,7 W (24 VDC)<br>1,2 VA (12 VAC)<br>0,5 W (12 VDC) |

Output specification

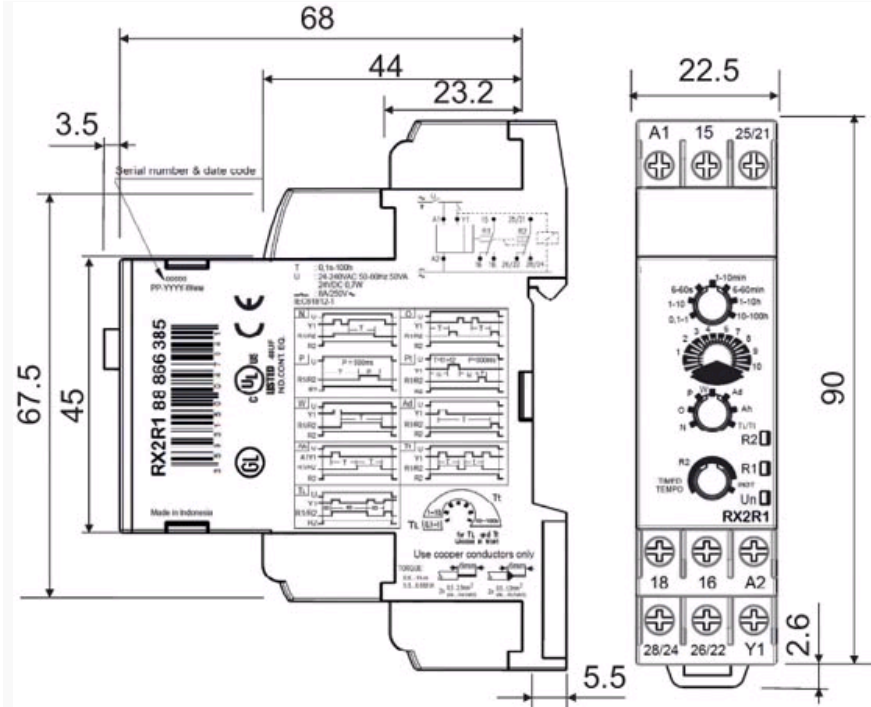
|                                          |                                     |
|------------------------------------------|-------------------------------------|
| 2 changeover relays, AgNi (cadmium-free) | 2 C/O<br>RQR1- RQR6 2 open contacts |
|------------------------------------------|-------------------------------------|

General characteristics

|                                                   |                                                                                                                                                                                                       |
|---------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Weight : casing 22,5 mm                           | 88 866 175 (RQR1) : 81 g<br>88 866 176 (RQR6) : 81 g<br>88 866 215 (RA2R1) : 87 g<br>88 866 300 (RU2R4) : 86 g<br>88 866 303 (RU2R3) : 90 g<br>88 866 305 (RU2R1) : 88 g<br>88 866 385 (RX2R1) : 88 g |
| Insulation resistance according to IEC/EN 60664-1 | > 500 MΩ (500 VDC)                                                                                                                                                                                    |

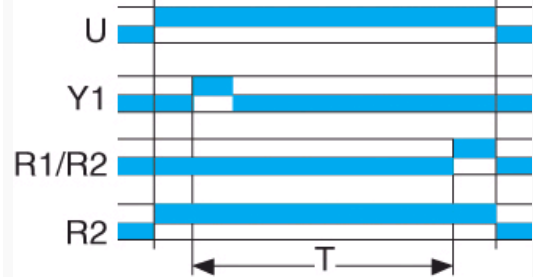
Dimensions (mm)

RX2R1



Curves

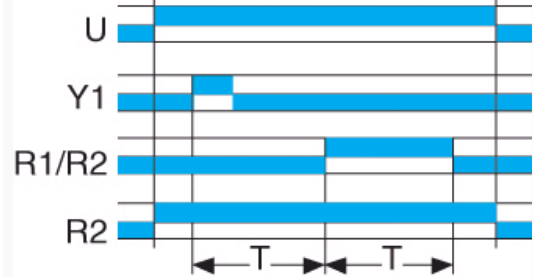
Function Ad



|                                                  |
|--------------------------------------------------|
| Function Ad                                      |
| Delay on energisation by switch (non resettable) |

Curves

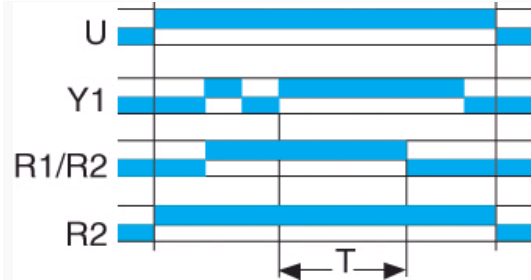
Function Ah



|                                                  |
|--------------------------------------------------|
| Function Ah                                      |
| Flashing single cycle by switch (non resettable) |

Curves

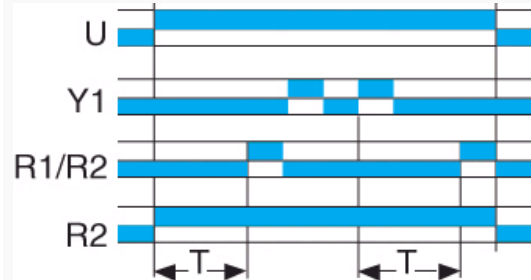
Function N



|            |
|------------|
| Function N |
| Safe-guard |

Curves

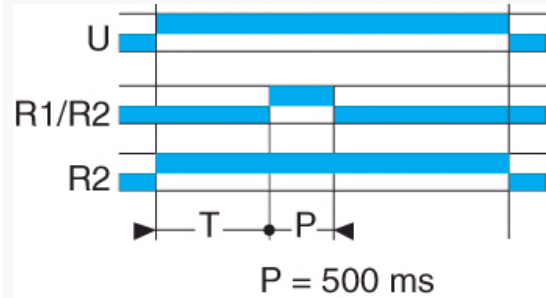
Function O



|                    |
|--------------------|
| Function O         |
| Delayed safe-guard |

Curves

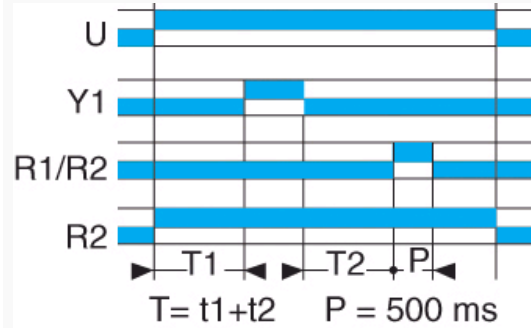
Function P



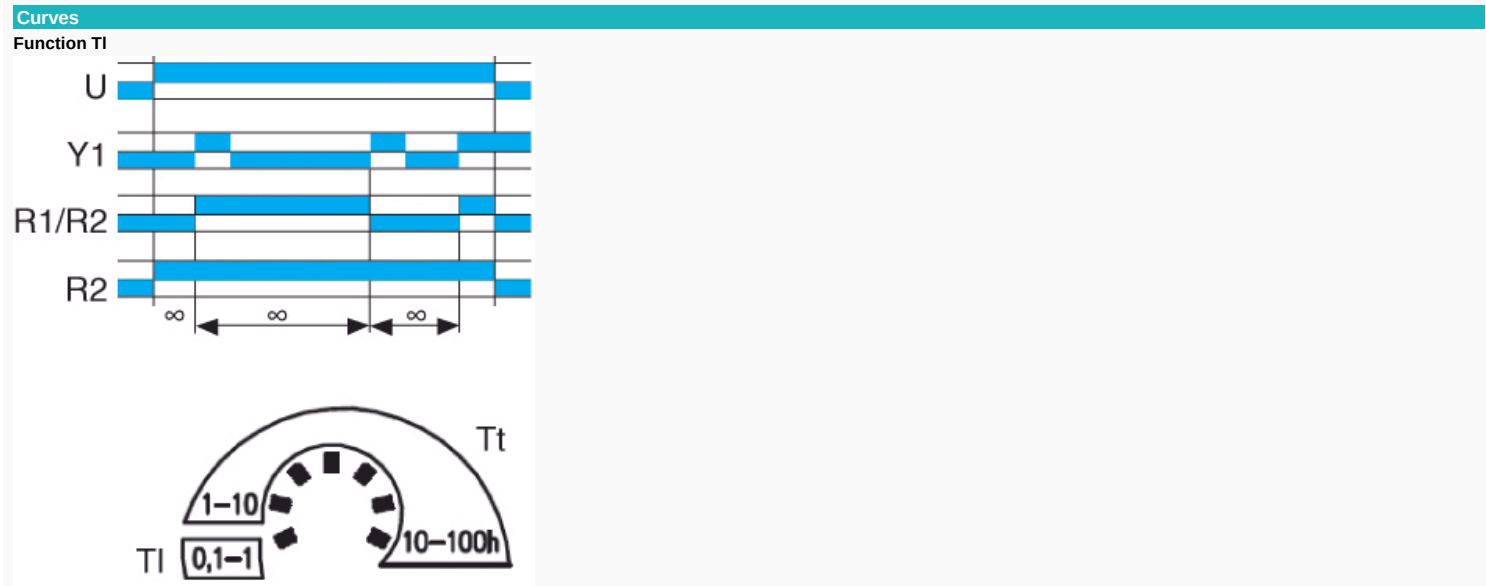
|                            |
|----------------------------|
| Function P                 |
| Delayed fixed-length pulse |

Curves

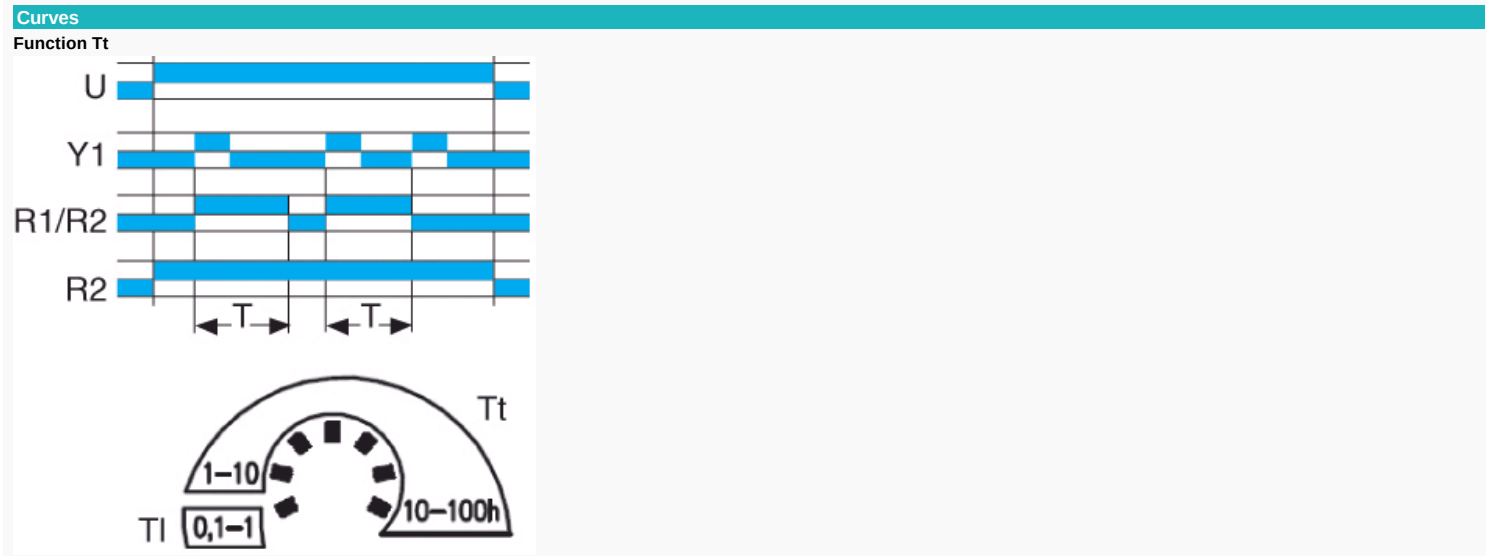
Function Pt



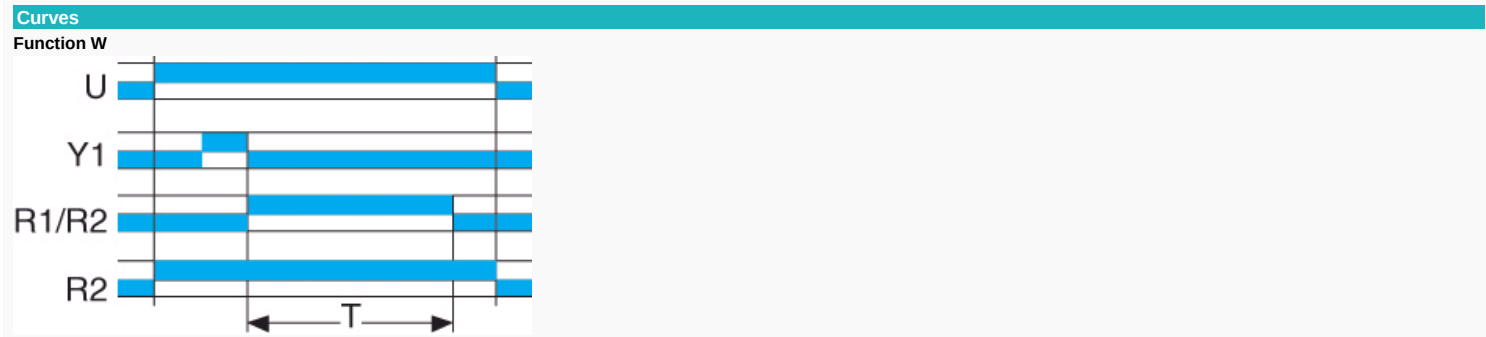
|             |
|-------------|
| Function Pt |
|-------------|



|               |
|---------------|
| Function TI   |
| Impulse relay |



|                     |
|---------------------|
| Function Tt         |
| Timed impulse relay |

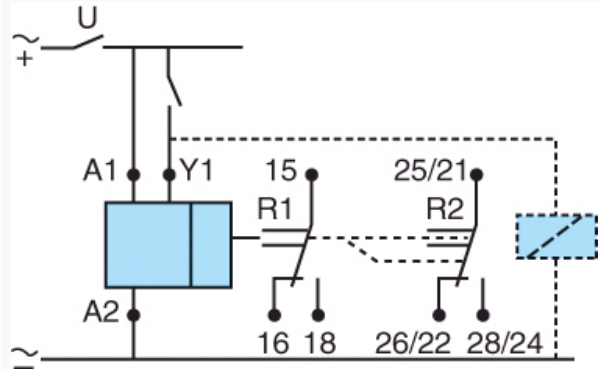


|            |
|------------|
| Function W |
|------------|

Timing after pulse on control contact

Connections

2 changeover relay outputs



Functions

Ad - Ah - N - O - P - Pt - TL - Tt - W

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