



Rottweil, 12.06.2021

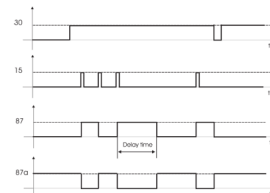
Toggle Relay time limited & compact M1 24 V (1.001.28x.xxE)

The Toggle Relay is used to switch loads on and off via pushbutton operation.

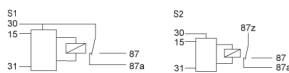
Circuit diagram S1: With the step switching relay a load can be switched via a button. If a positive/negative impulse is applied to Terminal 15, the relay switches and holds itself. Another impulse is switched on again (Power surge switch or toggle flip-flop). The terminal 15 is debounced.
 Circuit diagram S2: The contacts are separate from the control and can therefore be used in links. In this variant, the relay contact is completely potential-free and thus capable of switching alternating voltage. Housing forms can be found in the section housing and basic body.

Product images

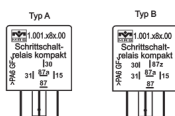
1. Toggle Relay time limited & compact M1 24V
4. Function Diagram



2. Connection Diagram



3. Design





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General Data

| Name | Value |
|----------------------|-----------------|
| Dimensions | 30 × 30 × 30 mm |
| Housing material | Plastic |
| Type-approval number | 03 5213 |
| Type-approval | e1 - 72/245/EWG |
| Number of pins | 5 |
| In-/Outputs (total) | 1 |
| Operating voltage | 24 V |

Technical Data

| Name | Value |
|-------------------------------|--------------|
| Number of pins | 5 |
| In-/Outputs (total) | 1 |
| Outputs (total) | 1 |
| Relay outputs | 1 |
| Processor | 8 bit |
| Temperature range | -40 to 85 °C |
| Protection class | IP53 |
| Operating voltage | 24 V |
| Max. output current (87, 87a) | 30 A |
| Quiescent current (24V) | 1 mA |
| Programming system | MRS Realizer |

Order options

| Name | Type | Model | Connection diagram | Order no. |
|--|------|-------------------------|--------------------|---------------|
| Toggle Relay time limited & compact M1 24 V 30 A | A | positive edge triggered | S1 | 1.001.281.xxE |
| Toggle Relay time limited & compact M1 24 V 30 A | A | negative edge triggered | S1 | 1.001.282.xxE |
| Toggle Relay time limited & | B | positive edge triggered | S2 | 1.001.283.xxE |



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| Name | Type | Model | Connection diagram | Order no. |
|--|------|----------------------------|--------------------|--------------------|
| compact M1 24 V 30 A | | | | |
| Toggle Relay time limited & compact M1 24 V 30 A | B | negative edge triggered | S2 | 1.001.284.xxE |
| Please set an "E" behind the article number for english printing e.g. 1. 001.281.XXE | | | | 1.001.281.X XEE |

Accessories

| Required accessories | Article number |
|--|----------------|
| Software programming tool MRS Realizer | 1.100.000.01 |
| Socket ST FL 9-pin 5 x 6.3 / 4 x 2.8 | 1.017.002.00 |
| Socket package watertight 30 mm | 1.017.010.30 |
| FASTON terminal for latching 2.8 mm 0.5 – 1.0 mm ² | 105292 |
| FASTON terminal for latching 6.3 mm 1 mm ² | 102355 |
| FASTON terminal for latching 6.3 mm 1.5 – 2.5 mm ² | 103064 |