

Rottweil, 20.03.2023

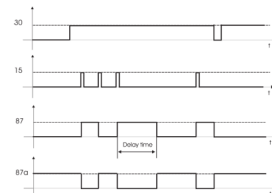
Toggle Relay time limited & compact M1 24 V (1.001.28x.xxE)

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

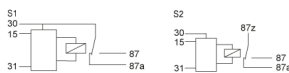
Circuit diagram S1: With the step switching relay a load can be switched via a button. If a positive/negative impulse is applied to Terminal 15, the relay switches and holds itself. Another impulse is switched on again (Power surge switch or toggle flip-flop). The terminal 15 is debounced.
 Circuit diagram 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

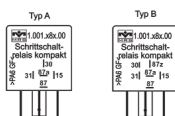
1. Toggle Relay time limited & compact M1 24V
4. Function Diagram



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