



Rottweil, 17.05.2021

Toggle Relay M1 compact 12 V (1.001.18x.00E)

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

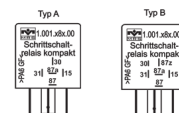
Circuit diagram S1: With the step switching relay load can be switched via a button. If a positive/negative impulse is applied to Terminal 15, the relay switches and holds itself. Another impulse is switched on again (Power surge switch or toggle flip-flop). The terminal 15 is debounced.
Circuit diagram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

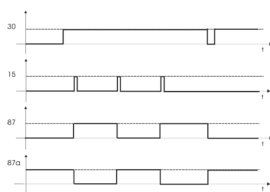
1. Toggle Relay M1 Compact 12V



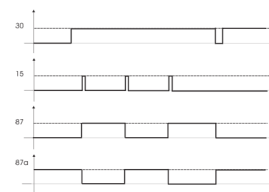
4. Design



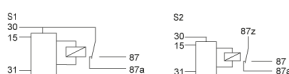
2. Function Diagram



5. Function Diagram



3. Connection Diagram





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General Data

Name	Value
Dimensions	30 × 30 × 30 mm
Housing material	Plastic
Type-approval number	04 7281
Type-approval	E1 - ECE R10
Number of pins	5
In-/Outputs (total)	1
Operating voltage	12 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	12 V
Max. output current (87, 87a)	30 A
Quiescent current (12V)	1 mA
Programming system	MRS Realizer

Order options

Name	Type	Model	Connection diagram	Order no.
Toggle Relay M1 compact 12 V 30 A	A	positive edge triggered	S1	1.001.181.00E
Toggle Relay M1 Compact 12 V 30 A	A	negative edge triggered	S1	1.001.182.00E
Toggle Relay M1 Compact 12 V 30 A	B	positive edge triggered	S2	1.001.183.00E
Toggle Relay	B	negative	S2	



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Name	Type	Model	Connection diagram	Order no.
M1 Compact 12 V 30 A		edge triggered		1.001.184.00E

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