

Rottweil, 18.08.2022

Pulse Relay M1 compact 12 V (1.002.18x.xxE)

Pulse relays compact are used when loads are to be switched on or off for a defined time. Please specify the desired impulse time when ordering.

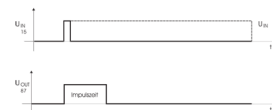
Circuit diagram S1 and S2: operating voltage is applied to terminal 30. If the voltage is set at Terminal 15, the relay will immediately pull in for the specified time and then fall off again. The duration of the control signal has no effect on the output pulse duration (i.e. the relay is not retriggerable). Circuit diagram S3: Operating voltage is applied to terminal 87z. If the voltage is set at Terminal 15, the relay will immediately pull in for the specified time and then fall off again. Circuit diagram S2 and S3: 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

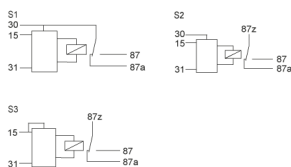
1. Pulse Relay M1 compact 12 V



4. Function Diagram



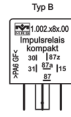
2. Connection Diagram



3. Design



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General Data

Name	Value
Weight	34 g
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 family	Texas Instruments MSP 430
Processor	16 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
Pulse duration	By customer request
Programming system	MRS Realizer

Order options

Name	Type	Model	Connection diagram	Order no.
Pulse Relay M1 compact 12 V	A	Individual pulse time (see below)	S1	1.002.181.00E
Pulse Relay M1 compact 12 V	B	Individual pulse time (see below)	S2	1.002.182.00E
Pulse Relay	C	Individual	S3	



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Name	Type	Model	Connection diagram	Order no.
M1 compact 12 V		pulse time (see below)		1.002.183.00E

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