



MRS Electronic GmbH & Co. KG
 Klaus-Gutsch-Str. 7
 78628 Rottweil
 info@mrs-electronic.com
 Tel.: +49 741 2807-0
 www.mrs-electronic.com

Rottweil, 27.10.2021

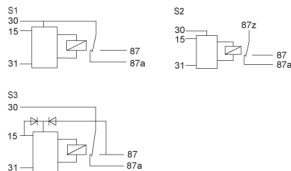
Time Relay Switch On and Off Delay 12 V (1.003.19z.xxE)

Time relays with switch on and off delay can be used if loads are to be switched on and off time-delayed. Please indicate the desired tightening and waste delay time when ordering.

All schematics: Operating voltage is applied to terminal 30/87z. If the voltage is set at Terminal 15, the relay will pull on at the end of the specified time. If the voltage is removed at Terminal 15, the relay falls off after the specified time has elapsed. 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. Circuit diagram S3: The relay does not consume a quiescent current by the diode circuitry after the drop. Housing forms can be found in the section housing and basic body.

Product images

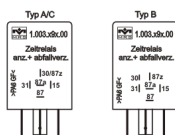
1. Connection Diagram



4. Time Relay Switch on and off Delay M3 12V



2. Design



3. Function Diagram





MRS Electronic GmbH & Co. KG
 Klaus-Gutsch-Str. 7
 78628 Rottweil
 info@mrs-electronic.com
 Tel.: +49 741 2807-0
 www.mrs-electronic.com

General Data

Name	Value
Dimensions	30 × 30 × 40 mm
Housing material	Plastic
Type-approval number	04 7282
Type-approval	E1 - ECE R10
Number of pins	5
In-/Outputs (total)	2
Operating voltage	12 V

Technical Data

Name	Value
Number of pins	5
In-/Outputs (total)	2
Inputs (total)	1
Inputs (digital)	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
Quiescent current (12V)	1 mA
Time delay	By customer request
Programming system	MRS Realizer

Order options

Name	Type	Model	Connection diagram	Order no.
Time Relay Switch On and Off Delay 12 V (Basis M3)	A	Individual delay time (see below)	S1	1.003.196.xxE
Time Relay Switch On and Off Delay 12 V	B	Individual delay time (see below)	S2	1.003.197.xxE



MRS Electronic GmbH & Co. KG
Klaus-Gutsch-Str. 7
78628 Rottweil
info@mrs-electronic.com
Tel.: +49 741 2807-0
www.mrs-electronic.com

Name	Type	Model	Connection diagram	Order no.
(Basis M3) Time Relay Switch On and Off Delay 12 V (Basis Micro PLC)	C	Individual delay time (see below)	S3	1.003.190.xxE

Accessories

Required accessories	Article number
Software programming tool MRS Realizer	1.100.000.01
Housing bracket	1.017.080.00
Socket ST FL 9-pin 5 x 6.3 / 4 x 2.8	1.017.002.00
Socket package watertight 40 mm	1.017.010.40
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