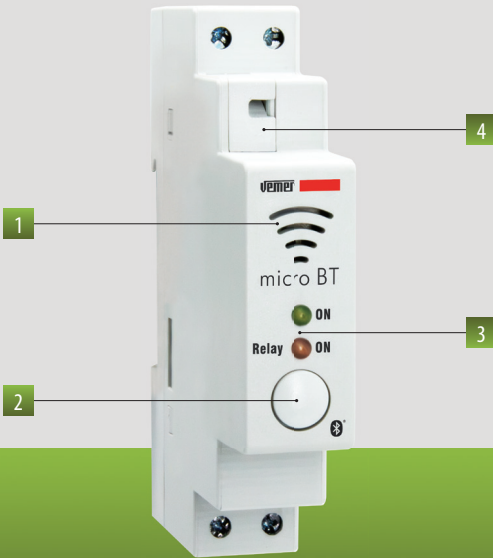# Time/astronomical switches

Micro BT

Digital electronic switch for the management of electrical loads over time with maximum precision. They allow time programming with daily or weekly periodicity or astronomical from sunset to sunrise.The Bluetooth interface allows the coupling with smartphone and tablet to transfer the programs made on the smartphone thanks to the dedicated app. The backup battery is used to maintain the date and time, even in the absence of power, and can be replaced when it is depleted through the panel on the front of the instrument.

1. Bluetooth integrated interface for exchanging program from and to the dedicated app
2. Button for managing the device
3. Operation status signaling LEDs
4. Battery replacement panel
5. Free app for iOS and Android smartphone and tablet

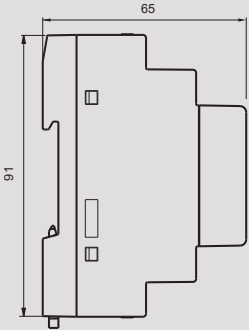**Available on the App Store**   **Available on the Google play**

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DIMENSIONS (mm)

Front view

18

Side view

65

91

CONNECTION DIAGRAM

Diagram

| 1 | 2 |
| 3 | 4 |

16A / 250Vac
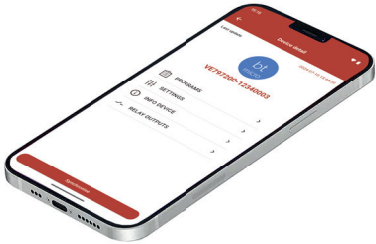
230Vac
50..60 Hz

TECHNICAL INFORMATION

TIME AND MANAGEMENT

DAILY / WEEKLY SWITCHES WITH BLUETOOTH INTERFACE

- Time programming (daily or weekly) or astronomical (from sunset to sunrise)
- Programs: ON, OFF, pulse (from 1 to 59 seconds), holidays, night (astronomical)
- Random switching function of the outputs
- Relay manual override (temporary or permanent)
- Automatic summer time update
- Correction of calculated sunrise and sunset time: ± 120 minutes
- Battery life: Approximately 4 years (replaceable)
- Low battery signal
- Bluetooth BLE 5.1 interface
- "Local operation lock" function: allows device control exclusively with the app (keyboard changes are ignored)

What you can do with the app

- Create, edit, and rename programs
- Transfer programs created on several time switches micro BT
- Acquire programs from one micro BT and copy them to other micro BT (copy / paste)
- Switch relay outputs manually
- Acquire settings (date, time, coordinates) automatically and transfer them to the micro BT

GENERAL CHARACTERISTICS

Power supply	Vac	230 Vac (-15% ÷ +10%) 50/60 Hz
Absorption	VA (W)	5.2 VA (0.7 W)
Relay capacity at 250 Vac	A	16 (10)
Load type:		
- incandescent lamps	W	2000
- halogen lamps	W	2000
- fluorescent lamps	VA	1000
- low consumption lamps (CLF)	W	200
- LED	W	200
Battery life		Approximately 4 years (Lithium battery CR-1632)
Charge reserve (for battery replacement)		1 minute
Switchings in case of power failure		no
Programming resolution		1 minute
N. programs (events)		120
Operating humidity		20 ÷ 90% non-condensing
Operating temperature	℃	-20℃ ÷ 50℃
Storage temperature	℃	-20℃ ÷ 70℃
Container		1 DIN module
Degree of protection		IP20

Time programming

ON and OFF

PULSE ON (max 59 seconds)

PULSE OFF (max 59 seconds)
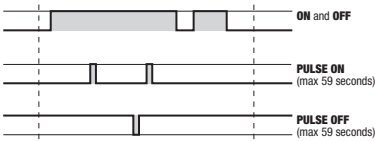
Astronomical programming

ON OFF — Sunset — Sunrise
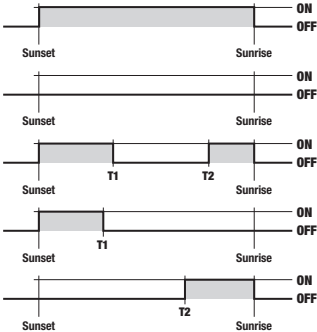
T_1 and T_2 can be:
1. a precise hour
2. a delay compared at sunset (T_1) or an advance respect at sunrise (T_2)
3. a pulse with a maximum duration of 59 seconds at sunset (T_1) or at sunrise (T_2)

Sunset T_1 T_2 Sunrise

REFERENCE STANDARDS

Compliance with Community Directives:
2014/53/EU (RED) is declared with reference to the following standards:
• EN 60730-2-7 • ETSI EN 301 489-1 • ETSI EN 301 489-17 • ETSI EN 300 328

Code	Model	Description	relay no.	Power supply
VE797200	micro BT	Daily/weekly/astronomical/time switch with 1 relay and Bluetooth interface	1	230 Vac