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## User Manual

ELECTROMECHANICAL TIME SWITCHES  
 Read all the instructions carefully

### SAFETY WARNINGS

- 1) The appliance should be installed by a competent operator
- 2) The appliance should be installed in a panel in such a way as to guarantee that the terminals are inaccessible after fitting
- 3) Connect the instrument as shown in the alongside diagrams
- 4) Before touching the connector terminals make sure that the wires to be connected or already connected to the instrument are not live
- 5) Before supplying power to the wires connected to the instrument, make sure the terminals will be inaccessible after installation
- 6) Do not power or connect the instrument if any part of it is damaged

### Timed modular mechanical inserter

Code	Model	Description	Dial	Min. switching time	No. of markers
VE087300	BIO-D	Daily	1x24 h	15 minutes	96
VE088100	BIO-W	Weeaily	1x7 days	2 h	84

### TECHNICAL SPECIFICATIONS

- Mechanism: step-step motor with quartz oscillator
- Power supply: 230 V AC (-15% / +10%) 50/60 Hz
- Absorption: 0,5 W
- Output: relay with exchange contact 16(4) A/250 V AC on resistant load (inductive)
- Charge reserve: 100 h after a constant charge of 48 h
- Operating precision:  $\pm 1$  s per day at 22 °C
- Operating temperature: -10 °C  $\div$  +50 °C
- Protection level: IP20
- Insulation: class II

### ELECTRICAL CONNECTIONS

- Connect the instrument as shown in panel B)

### OPERATING GUIDE

- Manual operation  
Place the cursor **1** ( see panel C) in position **I**.  
The contact between terminals 1 and 2 will be permanently closed.
- Automatic operation  
Place cursor **1** (see panel C) in position  $\odot$

### BIO-D PROGRAMMING (\*)

- Place cursor **1** in position  $\odot$
- Programme the clock intervention for the 24 hour period by positioning the grey markers with horizontal movement from right to left
- Each marker corresponds to 15 minutes of operating time
- The number of markers moved determines the duration of the operation
- Set the current time by directly rotating the toothed part of drum **2** (see panel C) in the direction shown by the arrow

### BIO-W PROGRAMMING (\*)

- Programme the clock intervention for the 24 hour period by positioning the yellow markers with horizontal movement from right to left
- Each marker corresponds to 2 hours of operating time
- The number of markers moved determines the duration of the operation
- Set the current time by directly rotating the toothed part of drum **2** (see panel C) in the direction shown by the arrow

(\*) This operation should be carried out only when the instrument is not powered.

### LEGEND

- A) Dimensions  
 B) Connection diagram  
 C) Operation

### REFERENCE STANDARDS

- Conformity with Community Directives:  
**73/23/EEC**, modified by **93/68/EEC** (low voltage)  
**89/336/EEC**, modified by **92/31/EEC** and **93/68/CEE** (EMC)  
 is declared with reference to the following harmonised standards:
- **FOR SAFETY: EN 60669-2-3:**
- **FOR ELECTROMAGNETIC COMPATIBILITY:**  
**EN 61000-6-2**  
**EN 61000-6-3**

