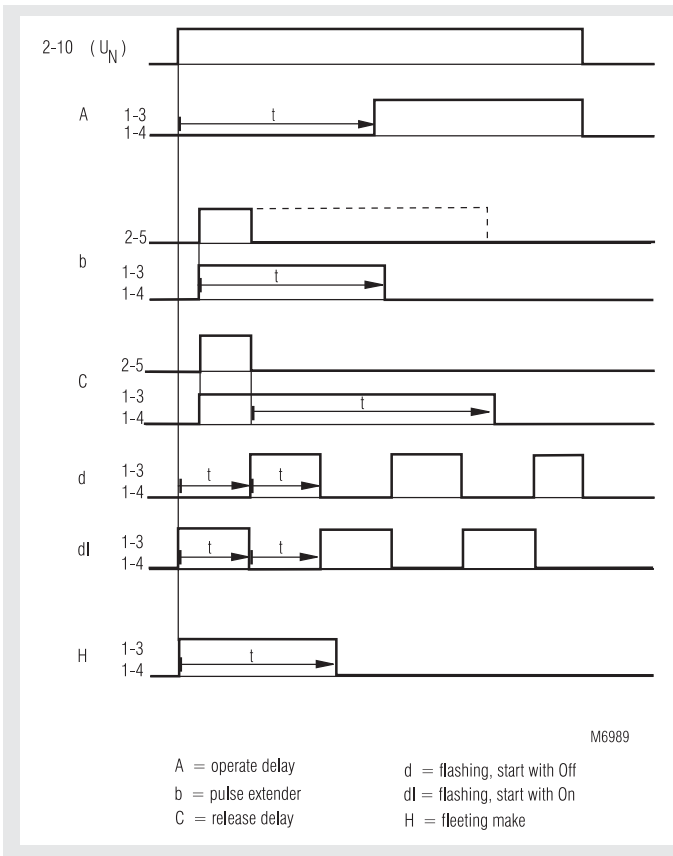




- According to IEC/EN 61 812-1
- Programmable on front side:
 - operate delay
 - pulse extender
 - release delay
 - flashing, start with Off
 - flashing, start with On
 - fleeting make function
 - 11 time ranges from 0,01 ... 9999 h
- LCD-Display
- Dual voltage input
- Display of setted time value and actual time value
- Indicator for state of contact
- Disabling of programming function
- Display modus count up or count down
- Internal supply by Lithium battery (10 years / 20 °C)
- 1 changeover contact
- 48 x 48 mm front size

Function diagram



Approvals and marking



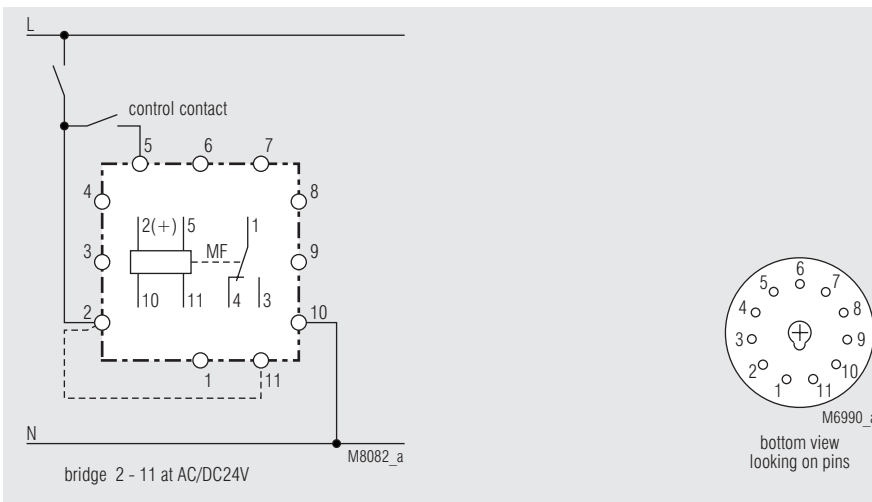
Application

Time-dependent controls

Notes

The wiring for supply and input circuit must be lead separately.
 The unit contains a lithium battery and must not be burnt.

Connection example



Technical data

Time ranges:	11 time ranges
	99,99 s 999,9 s
	9999 s 99 min 59 s
	99,99 min 999,9 min
	9999 min 99 h 59 min
	99,99 h 999,9 h
	9999 h
	For flashing function the time range 99,99 s is disabled
Time setting:	see programming
Recovery time:	50 ms
Repeat accuracy:	± 0,03 % ± 20 ms
Display accuracy:	± 0,03 % ± 20 ms
Min. control pulse:	50 ms
LCD-Display	
Number of digits:	4
Digit size:	8 mm

Input

Nominal voltage (pin 2/10):	AC 110 ... 240 V and AC/DC 24 V (bridge pin 2 and 11)
Voltage range:	0,85 ... 1,1 U _N
Min. pulse time for control input 5 (+):	50 ms
Nominal consumption:	AC 24 V 1 VA AC 240 V 11 VA DC 24 V 0,5 W
Nominal frequency:	50 / 60 Hz

Output

Contacts	
EB 7911.81:	1 changeover contact
Thermal current I_{th}:	8 A
Switching capacity	
at 5 A / 250 V:	10 ⁵ switching cycles
Max. permissible switching frequency / h	
at I max. AC 250 V resistive load:	600 switching cycles
Mechanical life:	> 5 x 10 ⁶ switching cycles

General data

Operating mode:	Continuous operation
Temperature range:	- 10 ... + 60 °C
Clearance and creepage distances	
overvoltage category / contamination level:	4 kV / 2 IEC 60 664-1
EMC	
Electrostatic discharge:	8 kV (air) IEC/EN 61 000-4-2
HF irradiation:	10 V / m IEC/EN 61 000-4-3
Fast transients:	2 kV IEC/EN 61 000-4-4
Surge voltages between wires for power supply:	1 kV IEC/EN 61 000-4-5
between wire and ground:	2 kV IEC/EN 61 000-4-5
HF-wire guided:	10 V IEC/EN 61 000-4-6
Interference suppression:	Limit value Class B EN 55 011
Degree of protection	
Frontside:	IP 65 IEC/EN 60 529
Housing:	Thermoplastic with V0 behaviour according to UL subject 94
Wire connection:	with plug in adapter suitable for 11-pole connector according to IEC 67-1-18 a see connection example
Weight:	120 g

Dimensions

Width x height x depth:	48 x 48 x 87 mm
panel cut out:	45 ^{+0,6} x 45 ^{+0,6} mm

Standard type

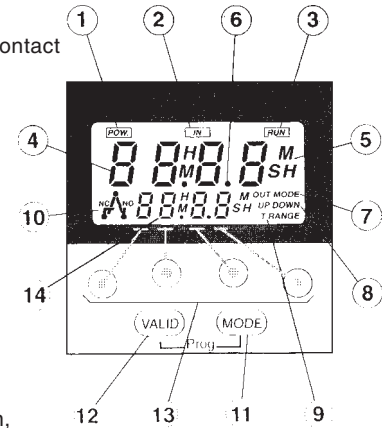
EB 7911.81/100 AC 110 ... 240 V + AC/DC 24 V	
Article number:	0047421 stock item
• Output:	1 changeover contact
• Nominal voltage U _N :	AC 110 ... 240 V + AC/DC 24 V
• Front size:	48 x 48 mm

Accessories

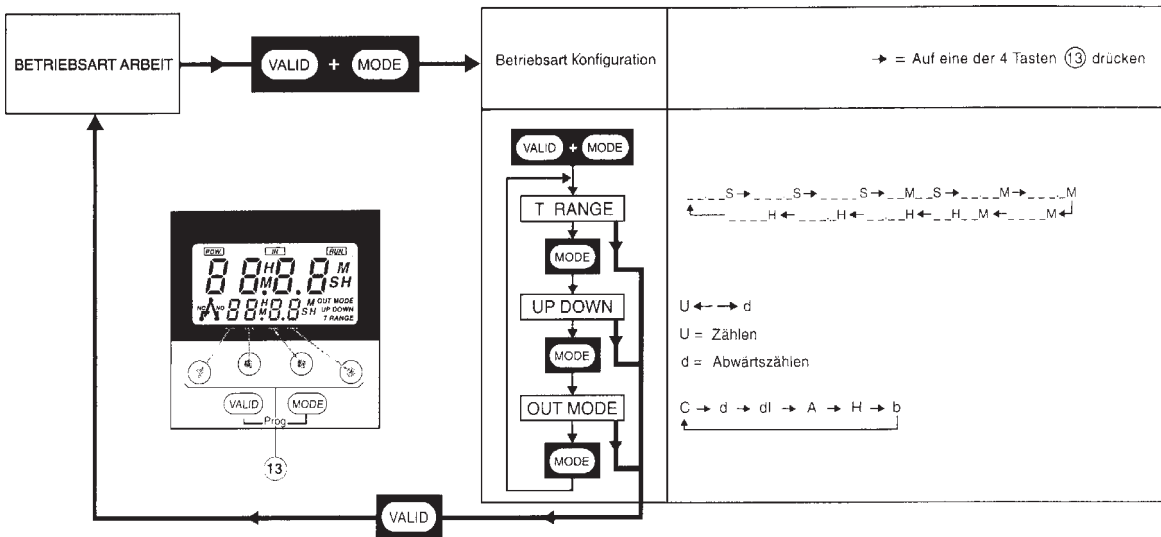
Socket for DIN rail mounting:	ET 4048-21
Connector for flush mounting:	ET 4048-13

Display

- 1 indicator for power supply
- 2 indicator for state of output contact
- 3 indicator for running time
- 4 display of actual value
- 5 time value
- 6 decimal dot
- 7 operating modes
- 8 display count up (UP) display count down (DOWN)
- 9 time ranges
- 10 indicator for state of output contacts
- 11 next step
- 12 confirmation
- 13 in programming mode: time range, count up or down, function
- 14 setted time value



Input of time value by pressing one of the buttons (13) corresponding to the digit on the display.



- a) To program the unit the switch underneath the cover on the side of the unit must be set to "ON". After programming it should be switched back to "OFF". Changes are disabled in position "OFF".
- b) If the time is running, a change of the setting value will be valid
 - immediately, if count up is selected and the new value is higher than the elapsed time,
 - with the next cycle, if count down is selected
- c) The unit is delivered with the following default settings: 01,00 s, d (DOWN), c (release delay), Prog = ON
- d) If by fault the test procedure is selected, or if on the display the complete display or flashing parts are shown, press "MODE" until "BP" is displayed and then "VALID" to return to normal operation

