



17.5 mm DIN rail mounting MUR1 Part number 88826105



- TO BE SOON REPLACED BY THE NEW CHRONOS 2 RANGE (ref. 88827...)
- Relay or solid state output
- Multi-function or mono-function
- Multi-range
- Multi-voltage
- Screw or spring terminals
- LED status indicator (relay version)
- Option of connecting an external power supply to the control input
- 3-wire sensor control option

Part numbers

	Type	Functions	Timing	Output	Nominal rating	Connections	Supply voltage
88 826 105	MUR1	A - At - B - C - H - Ht - Di - D - Ac - Bw	0,1s→100h	1 changeover relay	8 A	Screw terminals	24 V DC / 24 →240 V AC

Specifications

Timing

Timing ranges (7 ranges)	1 s - 10 s - 1 min - 10 min - 1 h - 10 h - 100 h TK2R1 : 0.6s - 2.5s - 20s - 160 s
Repetition accuracy with constant parameters	± 0.5 % (IEC/EN 1812-1)
Drift Temperature	± 0,05 % / °C
Drift Voltage	± 0.2 % / V
Display accuracy according to IEC/EN 61812-1	± 10 % / 25 °C
Minimum pulse duration typically (relay version)	30 ms
Minimum pulse duration typically (solid state version)	50 ms
Minimum pulse duration typically (relay version under load)	100 ms
Maximum reset time by de-energisation typically (relay version)	100 ms
Maximum reset time by de-energisation typically (solid state version)	350 ms
Immunity from micro power cuts : typical	> 10 ms
Supply	*** TRADUCTION MANQUANTE ***
Multi-voltage power supply	Depending on version
Frequency (Hz)	50 / 60
Operating range	85 to 110 % Un (85 to 120 % Un for 12V AC/DC)
Operator factor	100 %
Max. absorbed power	0,6 W 24 V AC/DC 1,5 W 230 V AC 32 VA 230 V AC

Output specification

1 or 2 changeover relays, AgNi (cadmium-free)	2000 VA/80 W
Rated power	2000 VA/80 W
Maximum breaking current	8 A AC 8A DC
Minimum breaking current	10 mA / 5 V DC
Voltage breaking capacity	250 V AC/ DC
Electrical life (operations)	10 ⁵ operations 8 A 250 V resistive
Mechanical life (operations)	5x10 ⁶
Breakdown voltage acc. to IEC/EN 61812-1	2.5 kV / 1 min / 1 mA / 50 Hz
Impulse voltage acc. to IEC/EN 60664-1, IEC/EN 61812-1	5 kV, wave 1.2 / 50 µs

Solid state output

Rated power	0,7 A AC/DC 20 °C (0,5 A UL)
Derating	5 mA / °C
Maximum admissible current	20 A ≤ 10 ms
Minimum breaking current	10 mA
Leakage current	< 5 mA
Voltage breaking capacity	250 V AC/ DC
Maximum voltage drop at terminals	3 wire 4V - 2 wire 8V
Electrical life (operations)	10 ⁸
Mechanical life (operations)	10 ⁸
Breakdown voltage acc. to IEC/EN 60664-1, IEC/EN 60255-5	2.5 kV to 1 mA / 1 min

Input type	Volt-free contact 3-wire PNP output control option residual voltage : 0.4V whatever the timer power supply
General characteristics	
Conformity to standards	IEC/EN 61812-1 IEC/EN 61000-6-1 IEC/EN 61000-6-2 IEC/EN 61000-6-3 IEC/EN 61000-6-4
Certifications	CE, UL, cUL, CSA, GL
Temperature limits use (°C)	-20 →+60
Temperature limits stored (°C)	-30 →+60
Installation category (acc. to IEC/EN 60664-1)	Voltage surge category
Creepage distance and clearance acc. to IEC/EN 60664-1	4 kV / 3
Protection (IEC/EN 60529)	IP 20 IP 40
Degree of protection acc. to IEC/EN 60529 Front face (except Tk2R1)	IP 50
Vibration resistance acc. to IEC/EN 60068-2-6	f = 10 ■ 55 Hz A = 0,35 mm
Relative humidity no condensation acc. to IEC/EN 60068-2-30	93 % sans condensation
Electromagnetic compatibility - Immunity to electrostatic discharges acc to IEC/EN 61000-4-2	Level III (Air 8 kV / Contact 6 kV)
Immunity to radiated, radio-frequency, electromagnetic field acc. IEC/EN 61000-4-3	Level III 10V/m (80 M Hz to 1 G Hz)
Immunity to rapid transient bursts acc. to IEC/EN 61000-4-4	Level III (direct 2kV / Capacitive coupling clamp 1 kV)
Immunity to shock waves on power supply acc. to IEC/EN 61000-4-5	Level III (2 kV / common mode 2 kV/residual current mode 1kV)
Immunity to radio frequency in common mode acc. to IEC/EN 61000-4-6	Level III (10V rms : 0.15 M Hz to 80 M Hz)
Immunity to voltage dips and breaks acc. to IEC/EN 61000-4-11	30 %/10 ms 60 %/100 ms > 95 %/5 s
Mains-borne and radiated emissions acc. to EN 55022 (CISPR22), EN55011 (CISPR11)	Class B
Fixing : Symmetrical DIN rail	35 mm
Connection capacity - without ferrule	2 x 2,5 mm ²
Connection capacity - with ferrule	2 x 1,5 mm ²
Spring terminals, 2 terminals per connection point - flexible wire	1,5 mm ²
Spring terminals, 2 terminals per connection point - rigid wire	2,5 mm ²
Housing material	Self-extinguishing
Weight : casing 17,5 mm	60 g
Weight : casing 22,5 mm	90 g
Weight : plug-in casing	80 g

60

Display

Visualisation des états par 1 LED

- Verte clignotante sous tension

Indication du fonctionnement LED verte

Flashes brefs :

- minuterie sous tension, pas de temporisation en cours (sauf Di-D et Li-L) *

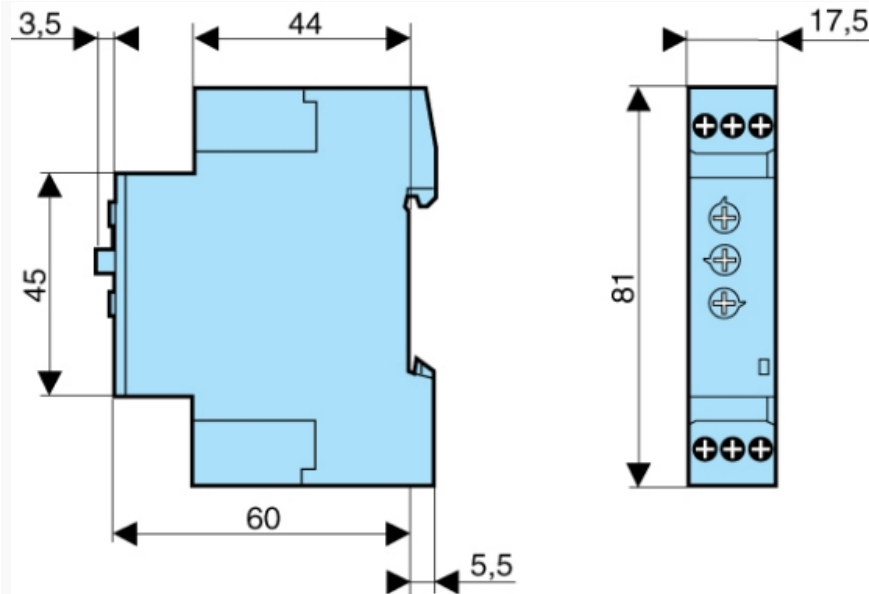
Clignotement :

- temporisation en cours

Allumage permanent :

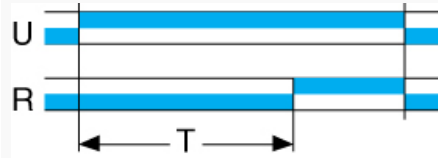
- relais enclenché, pas de temporisation en cours

Dimensions (mm)



Curves

Function A



Function A
Delay on energisation

Curves

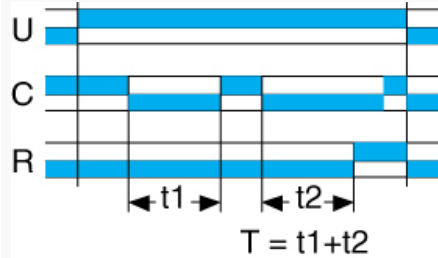
Function Ac



Function Ac
Timing after closing and opening of control contact

Curves

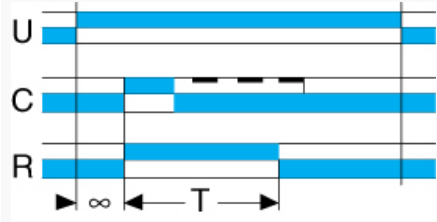
Function At



Function At
Timing on energisation with memory

Curves

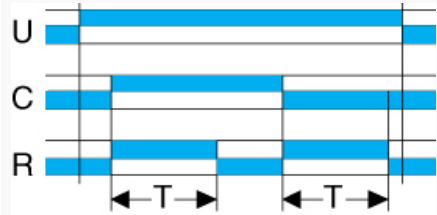
Function B



Function B
Timing on impulse one short

Curves

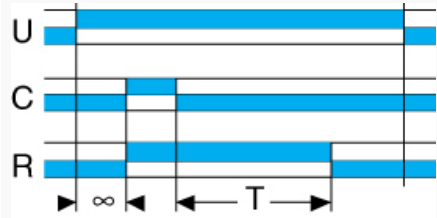
Function Bw



Function Bw
Pulse output (adjustable)

Curves

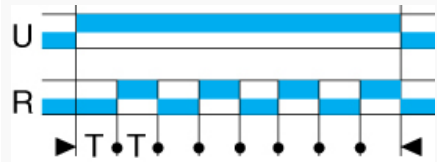
Function C



Function C
Timing after impulse

Curves

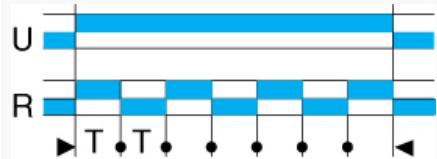
Function D



Function D
Flip-flop Pause start

Curves

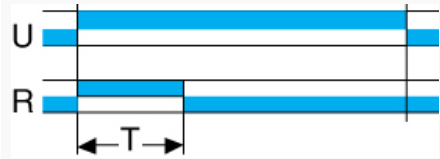
Function Di



Function Di
Flip-flop Pulse start

Curves

Function H

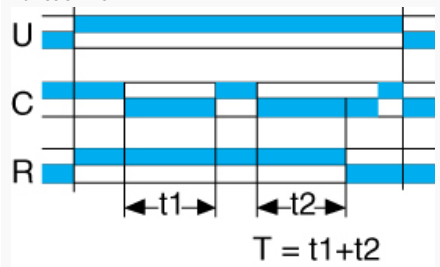


The diagram shows two horizontal axes. The top axis is labeled 'U' and has a solid blue bar representing a constant high voltage. The bottom axis is labeled 'R' and shows a pulse that starts at the same time as the voltage 'U' and ends at a time marked 'T' by a double-headed arrow. The pulse is represented by a solid blue bar.

Function H
Timing on energisation

Curves

Function Ht

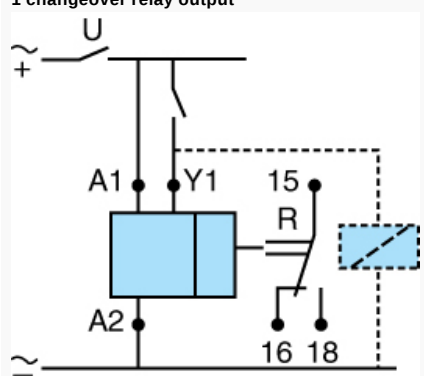


The diagram shows three horizontal axes. The top axis is labeled 'U' and has a solid blue bar. The middle axis is labeled 'C' and shows a series of pulses. The bottom axis is labeled 'R' and shows a pulse that starts at the first 'C' pulse and ends at the second 'C' pulse. The time between the start of the first 'C' pulse and the start of the second 'C' pulse is marked 't1' with a double-headed arrow. The time between the end of the first 'C' pulse and the end of the second 'C' pulse is marked 't2' with a double-headed arrow. Below the 'R' axis, the text 'T = t1+t2' is written.

Function Ht
Delay on energisation with memory

Connections

1 changeover relay output



The diagram shows a wiring schematic. At the top, there is an AC voltage source 'U' with a tilde symbol and a '+' sign. A switch is connected to the source. The switch has two positions. In the first position, the circuit goes through terminal 'A1' to a blue relay box. The relay box has two terminals, 'A1' and 'A2'. Terminal 'A2' is connected to a common terminal '15'. The relay box also has a terminal 'Y1' connected to terminal '15'. From terminal '15', the circuit goes through a changeover switch 'R' to terminal '16'. The changeover switch 'R' has two positions. In the first position, the circuit goes through terminal '16' to terminal '18'. In the second position, the circuit goes through terminal '18' to terminal '16'. The changeover switch 'R' is shown in a dashed box. The bottom of the diagram shows an AC voltage source with a tilde symbol.

Functions
A-At / H-Ht / B / C / Di-D / Ac / BW Ad - Ah - N - O - P - Pt - Tl - Tt - W

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