



## Plug-in OUR1 Part number 88867105



- Multi-function or mono-function
- Multi-range
- Multi-voltage
- Relay output 1 or 2: 8 A - 250 V (10 A UL)
- LED status indicator
- Option of connecting an external power supply to the control input
- 3-wire sensor control option

	Type	Functions	Timing	Output	Nominal rating	Connections	Supply voltage
88867105	OUR1	A - At - B - C - H - Ht - Di - D - Ac - Bw	0,1s→100h	1 changeover relay	8 A	8-pin	24 V DC / 24 →240 V AC
88867215	OAR1	A	0,1s→100h	2 changeover relays	8 A	8-pin	24 V DC / 24 →240 V AC
88867135	OCR1	C	0,1s→100h	1 changeover relay	8 A	8-pin	24 V DC / 24 →240 V AC
88867155	OLR1	Li - L	0,1s→100h	1 changeover relay	8 A	8-pin	24 V DC / 24 →240 V AC
88867100	OUR4	A - At - B - C - H - Ht - Di - D - Ac - Bw	0,1s→100h	1 changeover relay	8 A	8-pin	12 V AC / DC
88867103	OUR3	A - At - B - C - H - Ht - Di - D - Ac - Bw	0,1s→100h	1 changeover relay	8 A	8-pin	12 →240 V AC / DC
88867305	PU2R1	A - At - B - C - H - Ht - Di - D - Ac - Bw	0,1s→100h	2 timed changeover relays	8 A	11-pin	24 V DC / 24 →240 V AC
88867415	PA2R1	A - At	0,1s→100h	2 changeover relays	8 A	11-pin	24 V DC / 24 →240 V AC
88867435	PC2R1	C	0,1s→100h	2 changeover relays	8 A	11-pin	24 V DC / 24 →240 V AC
88867455	PL2R1	Li - L	0,1s→100h	2 changeover relays	8 A	11-pin	24 V DC / 24 →240 V AC
88867300	PU2R4	A - At - B - C - H - Ht - Di - D - Ac - Bw	0,1s→100h	2 timed changeover relays	8 A	11-pin	12 V AC / DC
88867303	PU2R3	A - At - B - C - Ht - Di - D - Ac - Bw	0,1s→100h	2 timed changeover relays	8 A	11-pin	12 →240 V AC / DC

### 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 1812-1	± 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

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 <sup>5</sup> operations 8 A 250 V resistive
Mechanical life (operations)	5x10 <sup>6</sup>
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 <sup>8</sup>
Mechanical life (operations)	10 <sup>8</sup>
Breakdown voltage acc. to IEC/EN 60664-1, IEC 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 electrostatic fields acc. ENV 50140/204 CEI/EN 61000-4-3	Level III 10V/m (80 MHz to 1 GHz)
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 MHz to 80 MHz)
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 <sup>2</sup>
Connection capacity - with ferrule	2 x 1,5 mm <sup>2</sup>
Spring terminals, 2 terminals per connection point - flexible wire	1,5 mm <sup>2</sup>
Spring terminals, 2 terminals per connection point - rigid wire	2,5 mm <sup>2</sup>
Housing material	Self-extinguishing
Weight: casing 17,5 mm	60 g
Weight: casing 22,5 mm	90 g
Weight: plug-in casing	80 g

### Accessories

8-pin connector base

### Code

25622128

### Display

State displayed by 1 LED

- Flashing green when on

Green LED operation indicator

Pulsing :

- timer on, no timing in progress (except functions Di-D and Li-L)

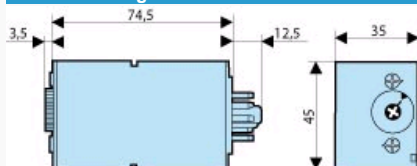
Flashing :

- timing in progress

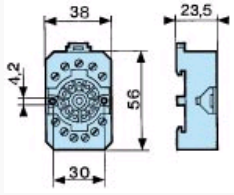
Permanently lit :

- Relay waiting, no timing in progress

### Dimension Diagram :



Dimension Diagram : Accessories



Curves : Function A - 1 relay output



Function A

Delay on energisation 2 timers or 2 relays, including 1 instantaneous

Curves : Function Ac - 1 relay output



Function Ac

Timing after closing and opening of control contact

Curves : Function At - 1 relay output



Function At

Timing on energisation with memory

Curves : Function B - 1 relay output



Function B

Timing on impulse one shot

Curves : Function Bw - 1 relay output



Function Bw

Pulse output (adjustable)

Curves : Function C - 1 relay output



Function C

Timing after impulse

Curves : Function D - 1 relay output



Function D

Flip-flop  
Pause start

Curves : Function Di - 1 relay output



**Function Di**

Flip-flop  
Pulse start

**Curves : Function H - 1 relay output**



**Function H**

Timing on energisation

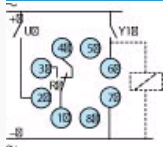
**Curves : Function Ht - 1 relay output**



**Function Ht**

Delay on energisation with memory

**: 8-pin 1 relay output**



**Functions**

Functions A - At / H - Ht / B / C / Di - D / Ac / Bw