

## Chronos 2 Plug-In Timers

### Crouzet Products /Automation Controls /Electronic Timers /8 & 11 Pin Chronos 2 Timers

#### PRODUCT FEATURES

- ✚ Multi-function or mono-function
- ✚ Multi-range (7 ranges, available options)
- ✚ Multi-voltage
- ✚ SPDT or DPDT relay output: 10 A - 250 V
- ✚ 8 and 11 Plug-in
- ✚ LED status indicator
- ✚ 3-wire sensor control option
- ✚ cUL, UL listed, CSA recognized, CE Approved



#### 8-Pin Plug-In Timers

Type	Function	Connection	Supply Voltage	Nominal Rating	Part number	
OL2R1	L (Repeat Cycle)	8-Pin Plug-In	24VDC, 24-240VAC	8A SPDT	<a href="#">88867801</a>	<a href="#">Check Stock</a>
OUR1	<b>Multifunction</b>	8-Pin Plug-In	24VDC, 24-240VAC	10A SPDT	<a href="#">88867105</a>	<a href="#">Check Stock</a>
OA2R1	A (Delay-on-Make)	8-Pin Plug-In	24VDC, 24-240VAC	10A DPDT	<a href="#">88867215</a>	<a href="#">Check Stock</a>
OCR1	C (Delay-on-Break)	8-Pin Plug-In	24VDC, 24-240VAC	10A SPDT	<a href="#">88867135</a>	<a href="#">Check Stock</a>
OLR1	Li,L (Repeat Cycle)	8-Pin Plug-In	24VDC, 24-240VAC	10A SPDT	<a href="#">88867155</a>	<a href="#">Check Stock</a>
OUR4	<b>Multifunction</b>	8-Pin Plug-In	12VAC/DC	10A SPDT	<a href="#">88867100</a>	<a href="#">Check Stock</a>
OUR3	<b>Multifunction</b>	8-Pin Plug-In	12-240VAC/DC	10A SPDT	<a href="#">88867103</a>	<a href="#">Check Stock</a>

# Chronos 2 electronic timers - Plug-in 8-pin (35 mm)

- Multi-function or mono-function
- Multi-range (7 ranges, available options)
- Multi-voltage
- SPDT or DPDT relay output 10A - 250V
- Plug-in
- 1 LED status indicator
- Option of connecting a small cord to the control input
- 3-wire sensor control option



## Technical specifications

Timing	
Repetition accuracy (with constant parameters)	± 0.5 % (CEI 1812-1)
Drift	
- Temperature	± 0.05 % / °C
- Voltage	± 0.2 % / V
Display precision according to IEC 1812-1	±10 % / 25 °C
Minimum pulse duration	
- Typically	30 ms
- Typically under load	100 ms
Maximum reset time by de-energisation	
- Typically	100 ms
Immunity to breaks in supply voltage: typically	
	>10 ms
Power supply	
Multi-voltage power supply	depending on version, see page 6/10, 6/11
Frequency	50/60 Hz
Operating range	85 to 110 % Un (85 to 120 % Un for 12V AC/DC)
Load factor	100 %
Maximum power consumption	0.6 W 24V AC/DC 1.5 W 230V AC 32 VA 230V AC
Output elements relay output	
1 or 2 changeover relays, AgNi (cadmium-free)	2000 VA / 80 W
Rated power	2000 V A / 80W
Maximum breaking current	10 A AC 10 A DC
Minimum breaking current	10 mA / 5 VDC
Voltage breaking capacity	250V AC/VDC
Electrical life	10 <sup>5</sup> operations 8 A 250V resistive
Mechanical life	5 x 10 <sup>6</sup> operations
Breakdown voltage acc. to IEC 1812-1	2.5 kV / 1min / 1 mA /50Hz
Impulse voltage acc. to IEC 664-1 IEC 1812-1	5 kV, wave 1.2 / 50 μs
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	
Input type	
- Volt-free contact	
- 3-wire PNP output control option maximum residual voltage: 0.4 V whatever the timer power supply	0.4 V

## Other information

For special features, functions etc. please contact us.

Timing 0.1s • 100h

## Types

OL2R1

## Part numbers and voltage

24V  $\overline{\text{---}}$  / 24 • 240V  $\sim$  **88 867 801**

12V  $\sim$  /  $\overline{\text{---}}$  —

12 • 240V  $\sim$  /  $\overline{\text{---}}$  —

## Functions

Monofunction  
L

## Nominal current

8 A

## Accessories

8-pin connector base (for the whole range) **S-08**  
2 timers

## Timing ranges (7 ranges)

0.1s - 1s - 10s - 1 min - 10 min - 1 h - 10 h - 100 h

## General specifications

Conforming to standards	
IEC 1812-1, EN 50081-1/2, EN 50082-1/2, LV directives (73/23/EEC + 93/68/EEC (CE marking) + EMC (89/336/EEC + IEC 669-2-3 (17.5 mm)	
Approvals	
UL cUL listed CSA recognized	
Temperatures limits	
- use	-20 °C + 60 °C
- stored	-30 °C + 60 °C
Installation category (acc. to IEC 664-1)	Voltage surge category
Creepage distance and clearance acc. to IEC 664-1	4 kV / 3
Degree of protection acc. to IEC 529	
- terminal block	IP 20
- casing	IP 40
- front face (except Tk2R1)	IP 50
Vibration resistance acc. to IEC 68-2-6	f = 10 • 55 Hz A = 0.35 mm
Relative humidity acc. to IEC 68-2-3 without condensation	93 %
Electromagnetic compatibility	Level III
- Immunity to electrostatic discharges acc. to IEC 1000-42	(Air 8 K / Contact 6 KV)
- Immunity to electrostatic fields acc. to ENV 50140/204 (IEC 1000-4-3)	Level III 10V/m: 80 MHz to 1 GHz)
- Immunity to rapid transient bursts acc. to IEC 1000-4-4	Level III (direct 2kV/ Capacitive coupling clamp 1 kV)
- Immunity to shock waves on power supply acc. to IEC 1000-4-5	Level III (common mode 2 KV / residual current mode 1KV)
- Immunity to radiofrequency in common mode acc. to ENV	Level III (10V rms: 0.15 MHz to 80 MHz)
- Immunity to voltage dips and breaks acc. to IEC 1000-4-11	30 % / 10 ms 60 % / 100 ms > 95 % / 5 s
- Mains-borne and radiated emissions acc. to EN 55022 (EN 55011 Group 1)	Class B
Fixing: plug-in bases	8-pin
Casing material	Self-extinguishing
Weight: plug-in casing	80 g