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Data Sheet

August 15, 2026

CROUZET

Crouzet TU2R1 22.5mm Chronos 2 Timer

Crouzet TU2R1 Chronos 2 Multifunction DIN Timer Queue model TU2R1 is Crouzet Chronos 2 type TU2R1, manufacturer part 88865305. Crouzet Chronos 2 22.5 mm literature lists a multifunction DIN-rail timer with two timed changeover relays, screw terminals, seven timing ranges covering 0.1 s to 100 h, and a multi-voltage supply of 24 V DC or 24 to 240 V AC. Functions A, At, B, C, H, Ht, Di, D, Ac and Bw cover delay on operate, additive delay, pulse shaping, delay on release, single-shot, clock generator and delay on operate and release. Rapid/distributor rows add IP50 front, CE/UL/cUL/CSA/GL, minus 20 C to plus 60 C, and 78 by 103.5 by 22.5 mm. Queue model TU2R1 is Crouzet Chronos 2 type TU2R1, manufacturer part 88865305. Crouzet Chronos 2 22.5 mm literature lists a multifunction DIN-rail timer with two timed changeover relays, screw terminals, seven timing ranges covering 0.1 s to 100 h, and a multi-voltage supply of 24 V DC or 24 to 240 V AC. Functions A, At, B, C, H, Ht, Di, D, Ac and Bw cover delay on operate, additive delay, pulse shaping, delay on release, single-shot, clock generator and delay on operate and release. Rapid/distributor rows add IP50 front, CE/UL/cUL/CSA/GL, minus 20 C to plus 60 C, and 78 by 103.5 by 22.5 mm. Machine sequencing, conveyor delay, HVAC interlocks, and panel timing where a 22.5 mm multifunction relay timer is required.



MODEL	CALIBRATION
Crouzet TU2R1	Available on request
CONDITION	STATUS
Used	In stock
RFQ / SKU	LISTING
TU2R1	https://aumictechlabs.com/products/tu2r1-2/

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 • 811210 • 541380

This unit

The Crouzet TU2R1 is a 22.5mm Chronos 2 Timer delivering precise timing control for industrial automation and process control systems. This DIN rail-mounted unit combines multi-function capability with seven adjustable timing ranges spanning 0.1 seconds to 100 hours, making it suitable for diverse delay and interval applications. The timer features two relay outputs - one instantaneous and one timed - with 8A contact rating at 250V AC/DC, enabling direct control of motors, solenoids, and other industrial loads. Built-in LED status indicators provide real-time operational feedback during active timing cycles.

Technical Specifications

Timing Performance
Adjustable ranges: 0.1 s to 100 h (seven preset ranges) Repetition accuracy: $\pm 0.5\%$ per IEC/EN 61812-1 Temperature drift: $\pm 0.05\%$ / $^{\circ}\text{C}$ Voltage drift: $\pm 0.2\%$ / V Display accuracy: $\pm 10\%$ at 25°C Minimum pulse duration: 30 ms typical (100 ms under load) Maximum reset time: 100 ms typical Supply voltage break immunity: >10 ms

Electrical Characteristics
Supply options: 12V AC/DC, 24V AC/DC, or 240V AC (50/60 Hz) Operating range: 85–110% U_n (85–120% U_n for 12V AC/DC) Power consumption: 0.6 W at 24V AC/DC; 1.5 W at 230V AC Output: Two changeover relays (AgNi contacts, cadmium-free) Contact rating: 8A at 250V AC/DC Minimum breaking current: 10 mA / 5V DC Electrical life: 10^5 operations at 8A 250V resistive load Rated power: 2000 VA / 80 W

Control & Interface
Volt-free contact input or 3-wire PNP output (maximum 0.4V residual) Screw terminal connections External power supply option for control input

Key Features
Seven timing ranges accommodate millisecond-to-hour-scale intervals Dual relay outputs enable simultaneous timing and instantaneous switching Temperature and voltage compensation ensure $\pm 0.05\%$ / $^{\circ}\text{C}$ and $\pm 0.2\%$ / V stability AgNi relay contacts eliminate cadmium contamination concerns Compact 22.5mm width optimizes control cabinet space allocation LED indicators (green operation, yellow during timing cycle)

Typical Applications
Motor soft-start and overload delay sequences Solenoid valve actuation with variable hold times Process sequencing and dwell-time control Alarm and shutdown delay functions Industrial automation state-machine transitions

Compatibility & Integration
The TU2R1 accepts 12V, 24V, and 240V supplies with ± 10 –20% tolerance, supporting both AC and DC applications. Volt-free and PNP control inputs enable integration with mechanical switches, proximity sensors, and solid-state logic outputs. AgNi relay contacts handle resistive, inductive, and lamp loads up to 8A and 250V.

TU2R1 Characteristics / Specifications

PARAMETER	VALUE
Model	TU2R1 (88865305)
Instrument Type	Multifunction DIN-rail time delay relay
Family	Crouzet Chronos 2 22.5 mm
Functions	A, At, B, C, H, Ht, Di, D, Ac, Bw
Output Contacts	2 timed changeover relays
Nominal Rating	8 A at 250 V AC/DC (Crouzet TU2R1 table); Rapid row also lists 8 A
Electrical Life	1e5 operations at 8 A 250 V resistive
Mechanical Life	5e6 operations
Timing Span	0.1 s to 100 h
Timing Ranges	1 s, 10 s, 1 min, 10 min, 1 h, 10 h, 100 h (seven ranges)
Repetition Accuracy	plus or minus 0.5 percent with constant parameters (IEC/EN 61812-1)
Temperature Drift	plus or minus 0.05 percent perCVoltage Drift: plus or minus 0.2 percent perVDisplay Accuracy: plus or minus 10 percent at 25 C per IEC/EN 61812-1
Minimum Pulse Relay	30 ms typical (50 ms solid-state family; 100 ms relay under load)
Reset Time Relay	100 ms typical by de-energisation (350 ms solid-state family)
Microcut Immunity	greater than 10 ms typical
Supply Voltage	24 V DC / 24 to 240 V AC
Supply Frequency	50/60 Hz
Operating Range	85 to 110 percent Un (85 to 120 percent Un on 12 V AC/DC family versions)
Absorbed Power	0.6 W at 24 V AC/DC; 1.5 W at 230 V AC; 32 VA at 230 V AC family table
Breakdown Voltage	2.5 kV / 1 min / 1 mA / 50 Hz per IEC/EN 61812-1
Impulse Voltage	5 kV, 1.2/50 us per IEC/EN 60664-1 and 61812-1
Operating Temperature	minus 20 C to plus 60 C
Front Protection	IP50

PARAMETER	VALUE
Housing Width	22.5 mm DIN rail
Overall Size	78 × 103.5 × 22.5 mm (HxLxW, Rapid row)
Approvals	CE, UL, cUL, CSA, GL
Manufacturer	Crouzet
Literature	Crouzet Chronos 2 TU2R1 / 88865305 datasheet

General Specifications & Supplementary Characteristics

PARAMETER	VALUE
Operating temperature	minus 20 C to plus 60 C
Operating Temperature	minus 20 C to plus 60 C
Front Protection	IP50
Housing Width	22.5 mm DIN rail
Overall Size	78 × 103.5 × 22.5 mm (HxLxW, Rapid row)
Approvals	CE, UL, cUL, CSA, GL
Manufacturer	Crouzet
Literature	Crouzet Chronos 2 TU2R1 / 88865305 datasheet Notes From Crouzet Chronos 2 TU2R1 (88865305) datasheet tables and matching Rapid Electronics specification row. Solid-state output ratings on the family sheet apply to solid-state Chronos 2 types, not this relay TU2R1.

Full OEM specifications

Complete technical content extracted from the manufacturer datasheet. Sparse OEM tables are reconstructed as tables below; other text is preserved as paragraphs.

Specifications	
Technical Specifications	
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Electrical Life	1e5 operations at 8 A 250 V resistive
Mechanical Life	5e6 operations
Timing Span	0.1 s to 100 h
Timing Ranges	1 s, 10 s, 1 min, 10 min, 1 h, 10 h, 100 h (seven ranges)
Repetition Accuracy	plus or minus 0.5 percent with constant parameters (IEC/EN 61812-1)
Temperature Drift	plus or minus 0.05 percent per C
Voltage Drift	plus or minus 0.2 percent per V
Display Accuracy	plus or minus 10 percent at 25 C per IEC/EN 61812-1
Minimum Pulse Relay	30 ms typical (50 ms solid-state family; 100 ms relay under load)
Reset Time Relay	100 ms typical by de-energisation (350 ms solid-state family)
Microcut Immunity	greater than 10 ms typical
Supply Voltage	24 V DC / 24 to 240 V AC
Supply Frequency	50/60 Hz
Operating Range	85 to 110 percent Un (85 to 120 percent Un on 12 V AC/DC family versions)
Absorbed Power	0.6 W at 24 V AC/DC; 1.5 W at 230 V AC; 32 VA at 230 V AC family table
Breakdown Voltage	2.5 kV / 1 min / 1 mA / 50 Hz per IEC/EN 61812-1
Impulse Voltage	5 kV, 1.2/50 us per IEC/EN 60664-1 and 61812-1
Operating Temperature	minus 20 C to plus 60 C
Front Protection	IP50

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Housing Width	22.5 mm DIN rail
Overall Size	78 x 103.5 x 22.5 mm (HxLxW, Rapid row)
Approvals	CE, UL, cUL, CSA, GL
Manufacturer	Crouzet
Literature	Crouzet Chronos 2 TU2R1 / 88865305 datasheet

Notes
From Crouzet Chronos 2 TU2R1 (88865305) datasheet tables and matching Rapid Electronics specification row.
Solid-state output ratings on the family sheet apply to solid-state Chronos 2 types, not this relay TU2R1.

Available from Aumictech

Used and refurbished unit evaluated in-house. Calibration: Available on request. Used · In stock.

Request a quote: sales@aumictech.com · +1 (484) 841-9341

Aumictech

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Technical content from manufacturer specifications. Unit photo/stock from Aumictech listing when available. Specifications subject to OEM documentation and unit condition.