

Multifunction Analog Timers

DIN-Rail Mount 22.5 mm

Chronos2 RX2R1, RU2R3 Series

The Chronos 2 range of industrial timers: ideal for timing, monitoring and counting functions. Available in single or multi-function versions, to meet the specific needs of each application.



24 VDC / 24-240 VAC



12-240 VAC/DC



IP40



Screw terminals

Electrical Control & Protection > Timer Relays > DIN-Rail > Analog > **Relay Output**

Highlights

- Multi-function
- Multi-range
- Screw terminals
- LED status indicator
- Possibility of external load connection in parallel to the control input
- 3-wire PNP sensor compatible
- Nominal rating 8 A

Standards



Part Numbers

88866385N



Functions: Ad - Ah - N - O - P - Pt - TI - Tt + W

Series: RX2R1

88866303N



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

Series: RU2R3

Part numbering system

Product line:
88: Control

Output Type:
0: Static
1 / 2 / 3: Relay

Power Supply:
3: 12-240 VAC/DC
4: 24-240 VAC or 24-240 VAC/DC
5: 24 VDC / 24-240 VAC or 24-240 VAC/DC
6: 230-240 / 380-440 VAC

88 **827** **1** **0** **3**

Casing:
827: 17.5 mm
865/866: 22.5 mm

Function:
0: Multifunction U
1: Function A
2: Function B
3: Function C
4: Function H/Ht
5: Function L/Li
6: Function K
7: Function Q
8: Multifunction X

More info.



Specifications

	88866385N	88866303N
Inputs		
Supply voltage	24 VDC / 24-240 VAC	12-240 VAC/DC
Voltage supply tolerance	-15%, +10%	
Operating factor	100%	
Max power consumption at Un	49.6 VA (240 VAC) 0.64 W (24 VDC)	4 VA (240 VAC) 0.5 W (12 VDC)
Immunity to power micro cuts	< 10 ms	
Timing		
Timing ranges	1 s - 10 s - 1 min - 10 min - 1 h - 10 h - 100 h	
Minimum control pulse duration	30 ms DC 50 ms AC	
Recovery time (after by de-energization)	120 ms	
Setting accuracy (full range)	IEC/EN 61812-1: ± 0.5% with constant parameters	
Drift temperature	± 0.05% / °C	
Drift voltage	± 0.2% / V	
Outputs		
Outputs configuration	2 changeover relays	
Maximum switching voltage	8 A 250 VAC resistive 8 A 30 VDC resistive	
Maximum switching power (resistive)	250 VAC / 8 A resistive 125 VDC / 0.3 A resistive	
Electrical life (operations)	10 ⁵ 8 A 250 VAC resistive	
Minimum breaking current	10 mA / 5 VDC	
Mechanical life (operations)	10 x 10 ⁶	
Rated power	2000 VA / 40 W	
Dielectric strength	IEC/EN 60664-1: 2.5 kV / 1 min / 1 mA / 50 Hz	
Insulation		
Insulation coordination	IEC/EN 60664-1: Voltage surge category III	
Rated impulse voltage	IEC/EN 60664-1, IEC/EN 61812-1, IEC 62314:2022: 5 kV (1.2/50 μs)	
Clearance / creepage distances	IEC/EN 60664-1: 4 kV / 3 mm Pollution degree 2	
Insulation resistance	IEC/EN 60664-1: >500 MOhm(s) (500 VDC)	
General characteristics		
Display	No, but status indicator. Un: green LED lights up continuously when supplied, blinks when counting R1: yellow LED lights up continuously when relay is closed R2: yellow LED lights up continuously when relay is closed	
Display accuracy	IEC/EN 61812-1: ± 10% / 25°C	
Casing	22.5 mm	
Mounting	IEC/EN 60715: 35 mm symmetrical DIN-Rail	
Mounting position	Vertical	
Housing material	Self-extinguishing Incandescent wire test	

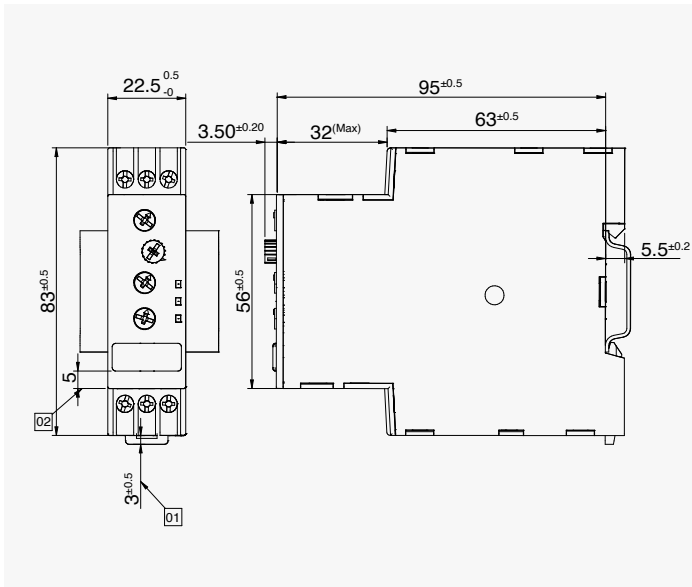
Specifications

88866385N
88866303N

General characteristics	
Degree of protection	According to IEC/EN 60529: Terminal block: IP20 Housing: IP40 Front face: IP50
Terminal capacity	Single-wire without ferrule: 1x0.5 - 3.3 mm ² (AWG20 - AWG12) 2x0.5 - 2.5 mm ² (AWG20 - AWG14) Multi-wire with ferrule: 1x0.5 - 2.5mm ² (AWG20 - AWG14) 2x0.5 - 1.5mm ² (AWG20 - AWG16)
Maximum tightening torques	IEC 60947-1: 0.5 - 0.6 N.m
Operating temperature	-20°C to +60°C
Storage temperature	-30°C to +60°C
Humidity	IEC/EN 60068-2-30: 93% non-condensing
Vibration resistance	IEC/EN 60068-2-6: 20 m/s ² / 10 Hz - 150 Hz
Shock resistance	IEC/EN 60068-2-27: 15 g - 11 ms
Short interruption on power line	IEC/EN 61000-4-11: 0% residual voltage, 250/300 cycles
MTBF (according to IEC/TR 62380:2004)	99.33 years 82.11 years
Weight	125 g
Packaging	Compact carton recycled and recyclable No plastic
Standards	
Approvals / marking	CE, cULus Listed Industrial Control Equipment, CCC*
Conformity with environmental directives	2015/863/UE: RoHS 1907/2006: Reach
Immunity to electrostatic discharges	IEC/EN 61000-4-2: Level III (Air 8 kV / Contact 6 kV) IEC/EN 61000-4-3:
Immunity to radiated, radio-frequency, electromagnetic field	Level I (1 V/m: 2.0 GHz - 2.7 GHz) Level II (3 V/m: 1.4 GHz - 2.0 GHz) Level III (10 V/m: 80 MHz - 1 GHz)
Immunity to rapid transient bursts	IEC/EN 61000-4-4: Level III (direct 2 kV / Capacitive coupling clamp 1 kV)
Immunity to shock waves on power supply	IEC/EN 61000-4-5: Level III (2 kV / common mode 2 kV / residual current mode 1 kV)
Immunity to radiofrequency in common mode	IEC/EN 61000-4-6: Level III (10 Vrms: 0.15 MHz - 80 MHz) IEC/EN 61000-4-11:
Immunity to voltage dips and breaks	0% residual voltage, 1 cycle 70% residual voltage, 25/30 cycles 0% residual voltage, 250/300 cycles
Mains-borne and radiated emissions	EN55032 (CISPR22): Class B EN55011 (CISPR11): Class B

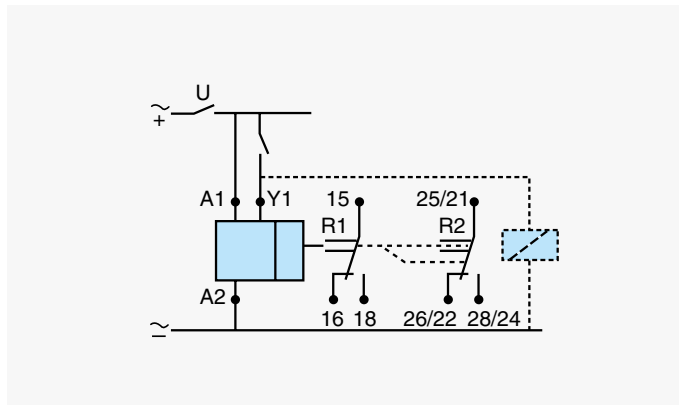
*Under process

Dimensions (mm)



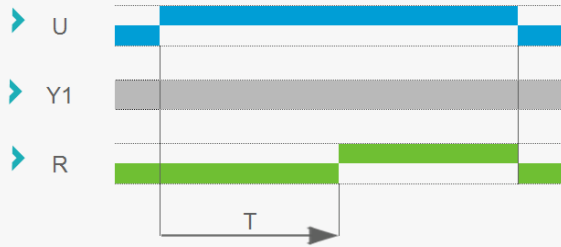
Wiring diagrams

88866385N / 88866303N

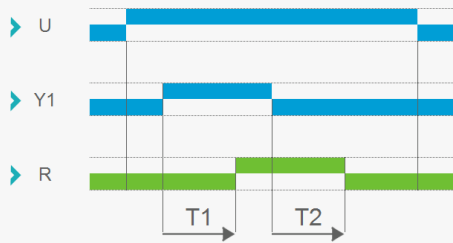


Function diagrams

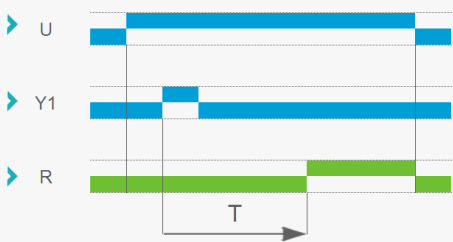
Function A: On-Delay (Delay on make)



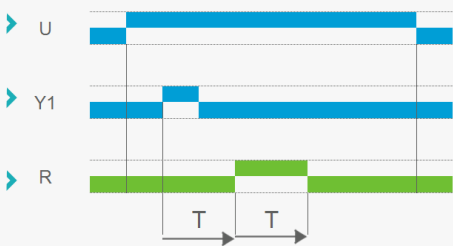
Function Ac: On/Off Delay (Delay on make/break)



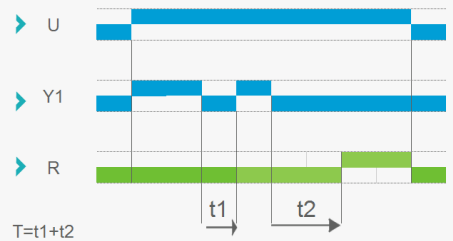
Function Ad: Delay on Start



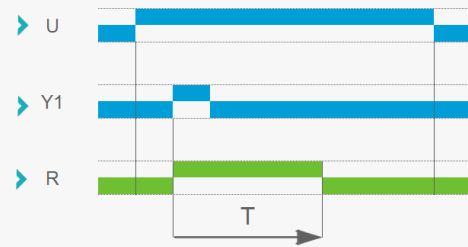
Function Ah: Triggered Flashing Cycle (Single shot flip-flop)



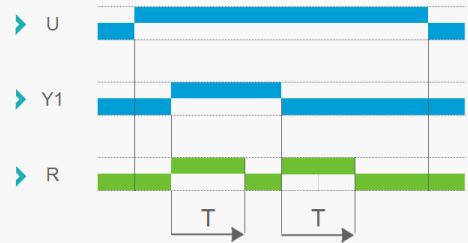
Function At: Summation Time Relay



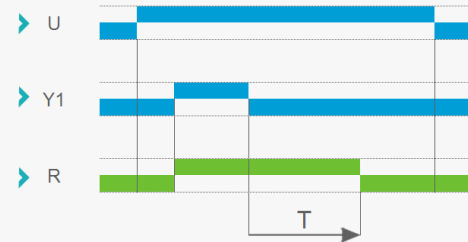
Function B: One-Shot



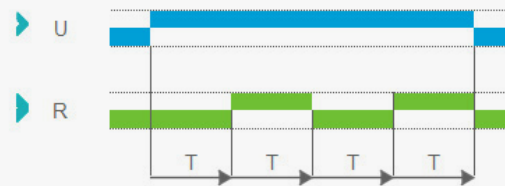
Function Bw: Pulse output



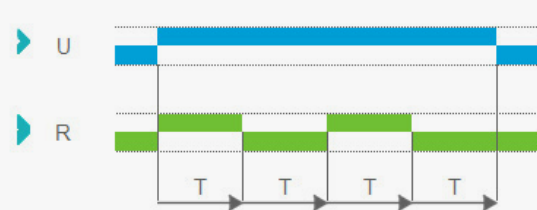
Function C: Off-Delay (Delay on brake)



Function D: Flasher (Symmetrical) - OFF Start



Function Di: Flasher (Symmetrical) - ON Start

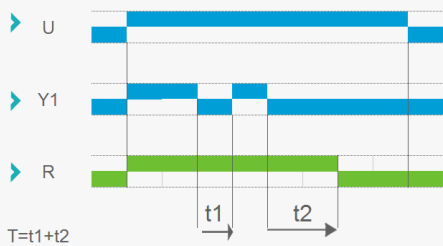


Function diagrams

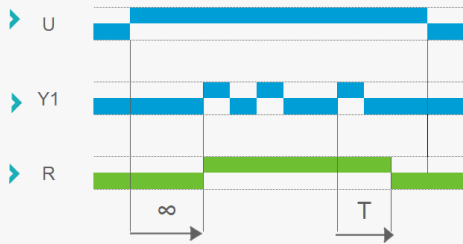
Function H: Interval



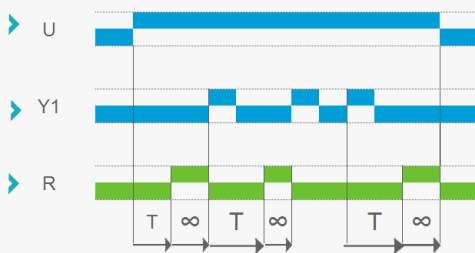
Function Ht: Interval with Memory



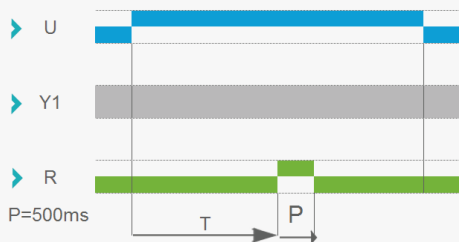
Function N: Watchdog



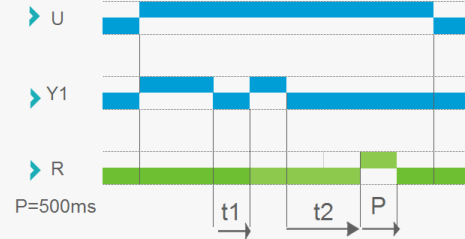
Function O: Delayed Watchdog



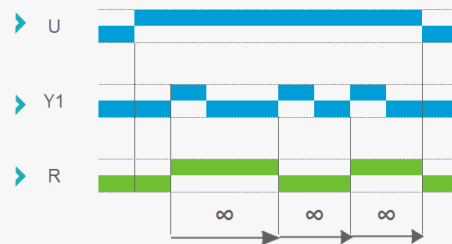
Function P: Pulse delayed relay



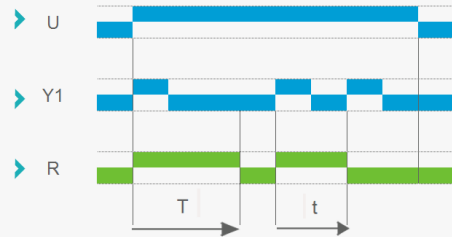
Function Pt: Impulse counter (delay on)



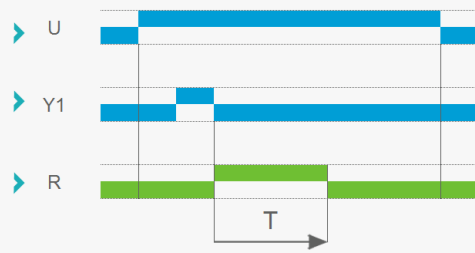
Function Tl: Latching (Alternating) - Leading Edge



Function Tt: Delayed Latching (Alternating) - Leading Edge



Function W: Timing after pulse of control contact



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