finder

88 Series - Plug-in timers 8 A

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Features	88.02	88.12
 Multi-voltage and multi-function timer range Front panel or socket mount 8 and 11 pin plug-in versions available Time scales from 0.05s to 100h "1 delayed contact +1 instantaneous contact" version available (type 88.12) Front panel mounting fixing included 90 series sockets 		Process (B) Process (B) C C C C C C C C C C C C C
	• Multi-function • 11 pin • Plug-in for use with 90 series sockets AI: On-delay DI: Interval GI: Pulse delayed SW: Symmetrical flasher (starting pulse on) without control signal A2 A1 22 21 24 32 31 34 12 11 14 10 2 5 6 7 8 11 9 4 1 3 1 14 10 2 5 6 7 8 11 9 4 1 3 1 14 10 2 5 6 7 8 11 9 4 1 3 1 14 10 2 5 6 7 8 11 9 4 1 3 1 14 10 2 5 6 7 8 11 9 4 1 3 1 14 10 2 5 6 7 8 11 9 4 1 3 1 14 10 2 5 6 7 8 11 9 4 1 3 1 14 10 2 5 6 7 8 11 9 4 1 3 1 14 10 2 5 6 7 8 11 9 4 1 3 1 14 10 2 5 6 7 8 11 9 4 1 3 1 14 10 2 5 6 7 8 11 9 4 1 3 1 14 10 2 5 6 7 8 11 9 4 1 3 1 14 10 2 5 6 7 8 11 9 4 1 3 1 14 10 2 5 6 7 8 11 9 4 1 3 1 14 10 2 5 6 7 8 11 9 4 1 3 1 14 10 2 5 6 7 8 11 9 4 1 3 1 14 10 2 5 6 7 8 11 9 4 1 3 1 14 10 2 5 6 7 8 11 9 4 1 3 1 14 10 2 5 6 7 8 11 9 4 1 3 1 14 10 2 5 6 7 8 11 9 4 1 3 14 14 10 2 5 6 7 8 11 9 4 1 3 14 14 14 14 14	 Multi-function 8 pin, 2 timed contacts or 1 timed + 1 instantaneous contact Plug-in for use with 90 series sockets Al b: On-delay (2 timed contacts) Al b: On-delay (1 timed + 1 instantaneous contact) D a: Interval (2 timed contacts) D b: Interval (1 timed + 1 instantaneous contact) GI: Pulse delayed SW: Symmetrical flasher (starting pulse on) without control signal A1 A2 12 11 14 22 21 24 2 7 4 1 3 5 8 6 C1 C2
Contact specification		
Contact configuration	2 CO (DPDT)	2 CO (DPDT)
Rated current/Maximum peak current A	8/15	8/15
Rated voltage/Maximum switching voltage VAC	250/400	250/400
Rated load AC1 VA	2,000	2,000
Rated load AC15 (230 V AC) VA	400	400
Single phase motor rating (230 V AC) kW	0.3	0.3
Breaking capacity DC1: 30/110/220 V A	8/0.3/0.12	8/0.3/0.12
Minimum switching load mW (V/mA)	300 (5/5)	300 (5/5)
Standard contact material Supply specification	AgNi	AgNi
Nominal voltage (U _N) V AC (50/60 Hz)	24230	24230
V DC	24230	24230
Rated power AC/DC VA (50 Hz)/W	24230 2.5 (230 V)/1 (24 V)	24230 2.5 (230 V)/1.5 (24 V)
Operating range V AC	20.4264.5	20.4264.5
V DC	20.4264.5	20.4264.5
Technical data	20.4204.5	20.4204.5
Specified time range	(0.05 s5 h) - (0.05 s10 h) - ($0.05 \pm 50 \text{ h}$ (0.05 \pm 100 \text{ h})
Repeatability %	± 1	± 1
Recovery time ms	300	200
Minimum control impulse ms	50	
Setting accuracy-full range %	± 3	
Electrical life at rated load AC1 cycles	100·10 ³	<u> </u>
Ambient temperature range °C	-10+55	-10+55
Protection category	IP 40	IP 40
	11 40	II 40

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Approvals (according to type)



88 Series - Plug-in timers 8 A

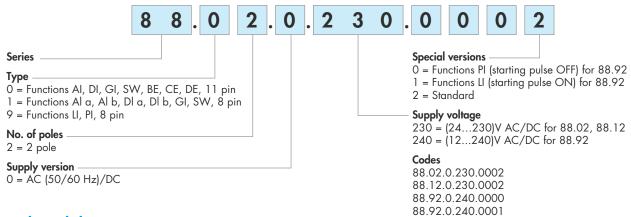
Features	88.92 - 0000	88.92 - 0001	
 Multi-voltage and mono-function timer range Front panel or socket mount Asymmetrical flasher The ON and OFF time are independently adjustable 8 pin plug-in Time scales from 0.05s to 300h 2 contacts Front panel mounting fixing included 90 series sockets 			
47.9	 Mono-function 8 pin, 2 timed contacts Plug-in for use with 90 series sockets Pl: Asymmetrical flasher (starting pulse OFF) 	 Mono-function 8 pin, 2 timed contacts Plug-in for use with 90 series sockets LI: Asymmetrical flasher (starting pulse ON) 	
	without control signal $ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	without control signal A1 A2 12 11 14 22 21 24 2 7 4 1 3 5 8 6 $C_1 C_2$	
Contact specification			
Contact configuration	2 CO (DPDT)	2 CO (DPDT)	
	2 CO (DPDT) 8/15	2 CO (DPDT) 8/15	
Contact configuration			
Contact configuration Rated current/Maximum peak current A Rated voltage/Maximum switching voltage V AC Rated load AC1 VA	8/15	8/15	
Contact configuration Rated current/Maximum peak current Rated voltage/Maximum switching voltage V AC Rated load AC1 VA Rated load AC15 (230 V AC) VA	8/15 250/400	8/15 250/400	
Contact configuration Rated current/Maximum peak current A Rated voltage/Maximum switching voltage V AC Rated load AC1 VA Rated load AC15 (230 V AC) VA Single phase motor rating (230 V AC) kW	8/15 250/400 2,000	8/15 250/400 2,000 400 0.3	
Contact configuration Rated current/Maximum peak current A Rated voltage/Maximum switching voltage V AC Rated load AC1 VA Rated load AC15 (230 V AC) VA Single phase motor rating (230 V AC) kW Breaking capacity DC1: 30/110/220 V A	8/15 250/400 2,000 400 0.3 8/0.3/0.12	8/15 250/400 2,000 400 0.3 8/0.3/0.12	
Contact configuration Rated current/Maximum peak current A Rated voltage/Maximum switching voltage V AC Rated load AC1 VA Rated load AC15 (230 V AC) VA Single phase motor rating (230 V AC) kW Breaking capacity DC1: 30/110/220 V A Minimum switching load mW (V/mA)	8/15 250/400 2,000 400 0.3 8/0.3/0.12 300 (5/5)	8/15 250/400 2,000 400 0.3 8/0.3/0.12 300 (5/5)	
Contact configuration Rated current/Maximum peak current A Rated voltage/Maximum switching voltage V AC Rated load AC1 VA Rated load AC15 (230 V AC) VA Single phase motor rating (230 V AC) kW Breaking capacity DC1: 30/110/220 V A Minimum switching load mW (V/mA) Standard contact material	8/15 250/400 2,000 400 0.3 8/0.3/0.12	8/15 250/400 2,000 400 0.3 8/0.3/0.12	
Contact configuration Rated current/Maximum peak current Rated voltage/Maximum switching voltage V AC Rated load AC1 VA Rated load AC15 (230 V AC) VA Single phase motor rating (230 V AC) KW Breaking capacity DC1: 30/110/220 V A Minimum switching load mW (V/mA) Standard contact material Supply specification	8/15 250/400 2,000 400 0.3 8/0.3/0.12 300 (5/5) AgNi	8/15 250/400 2,000 400 0.3 8/0.3/0.12 300 (5/5) AgNi	
Contact configuration Rated current/Maximum peak current A Rated voltage/Maximum switching voltage V AC Rated load AC1 VA Rated load AC15 (230 V AC) VA Single phase motor rating (230 V AC) kW Breaking capacity DC1: 30/110/220 V A Minimum switching load mW (V/mA) Standard contact material Supply specification Nominal voltage (U _N) V AC (50/60 Hz)	8/15 250/400 2,000 400 0.3 8/0.3/0.12 300 (5/5) AgNi 12240	8/15 250/400 2,000 400 0.3 8/0.3/0.12 300 (5/5) AgNi 12240	
Contact configuration Rated current/Maximum peak current Rated voltage/Maximum switching voltage VA Rated load AC1 VA Rated load AC15 (230 V AC) VA Single phase motor rating (230 V AC) kW Breaking capacity DC1: 30/110/220 V Minimum switching load mW (V/mA) Standard contact material Supply specification Nominal voltage (U _N) V AC (50/60 Hz) V DC	8/15 250/400 2,000 400 0.3 8/0.3/0.12 300 (5/5) AgNi 12240 12240	8/15 250/400 2,000 400 0.3 8/0.3/0.12 300 (5/5) AgNi 12240 12240	
Contact configuration Rated current/Maximum peak current Rated voltage/Maximum switching voltage V AC Rated load AC1 VA Rated load AC15 (230 V AC) VA Single phase motor rating (230 V AC) Breaking capacity DC1: 30/110/220 V A Minimum switching load mW (V/mA) Standard contact material Supply specification Nominal voltage (U _N) VAC (50/60 Hz) VDC Rated power AC/DC VA (50 Hz)/W	8/15 250/400 2,000 400 0.3 8/0.3/0.12 300 (5/5) AgNi 12240 12240 2.5 (230 V)/1.5 (24 V)	8/15 250/400 2,000 400 0.3 8/0.3/0.12 300 (5/5) AgNi 12240 12240 12240 2.5 (230 V)/1.5 (24 V)	
Contact configuration Rated current/Maximum peak current A Rated voltage/Maximum switching voltage V AC Rated load AC1 VA Rated load AC15 (230 V AC) VA Single phase motor rating (230 V AC) kW Breaking capacity DC1: 30/110/220 V A Minimum switching load mW (V/mA) Standard contact material Supply specification Nominal voltage (U _N) V AC (50/60 Hz) V DC Rated power AC/DC VA (50 Hz)/W Operating range V AC	8/15 250/400 2,000 400 0.3 8/0.3/0.12 300 (5/5) AgNi 12240 12240 12240 2.5 (230 V)/1.5 (24 V) 10.8264.5	8/15 250/400 2,000 400 0.3 8/0.3/0.12 300 (5/5) AgNi 12240 12240 12240 2.5 (230 V)/1.5 (24 V) 10.8264.5	
Contact configuration Rated current/Maximum peak current A Rated voltage/Maximum switching voltage V AC Rated load AC1 VA Rated load AC15 (230 V AC) VA Single phase motor rating (230 V AC) kW Breaking capacity DC1: 30/110/220 V A Minimum switching load mW (V/mA) Standard contact material Supply specification Nominal voltage (U _N) V AC (50/60 Hz) V DC Rated power AC/DC VA (50 Hz)/W Operating range V AC V DC V DC	8/15 250/400 2,000 400 0.3 8/0.3/0.12 300 (5/5) AgNi 12240 12240 2.5 (230 V)/1.5 (24 V)	8/15 250/400 2,000 400 0.3 8/0.3/0.12 300 (5/5) AgNi 12240 12240 12240 2.5 (230 V)/1.5 (24 V)	
Contact configuration Rated current/Maximum peak current Rated voltage/Maximum switching voltage V AC Rated load AC1 VA Rated load AC15 (230 V AC) VA Single phase motor rating (230 V AC) Breaking capacity DC1: 30/110/220 V A Minimum switching load mW (V/mA) Standard contact material Supply specification Nominal voltage (U _N) VAC (50/60 Hz) VDC Rated power AC/DC VA (50 Hz)/W Operating range VAC VDC Technical data	8/15 250/400 2,000 400 0.3 8/0.3/0.12 300 (5/5) AgNi 12240 12240 12240 2.5 (230 V)/1.5 (24 V) 10.8264.5 10.8264.5	8/15 250/400 2,000 400 0.3 8/0.3/0.12 300 (5/5) AgNi 12240 12240 12240 2.5 (230 V)/1.5 (24 V) 10.8264.5 10.8264.5	
Contact configuration Rated current/Maximum peak current A Rated voltage/Maximum switching voltage V AC Rated load AC1 VA Rated load AC15 (230 V AC) VA Single phase motor rating (230 V AC) kW Breaking capacity DC1: 30/110/220 V A Minimum switching load mW (V/mA) Standard contact material Supply specification Nominal voltage (U _N) V AC (50/60 Hz) V DC Rated power AC/DC VA (50 Hz)/W Operating range V AC Technical data Specified time range	8/15 250/400 2,000 400 0.3 8/0.3/0.12 300 (5/5) AgNi 12240 12240 2.5 (230 V)/1.5 (24 V) 10.8264.5 10.8264.5 See "Time Scale" page 3	8/15 250/400 2,000 400 0.3 8/0.3/0.12 300 (5/5) AgNi 12240 12240 12240 2.5 (230 V)/1.5 (24 V) 10.8264.5 10.8264.5	
Contact configuration Rated current/Maximum peak current Rated voltage/Maximum switching voltage VA Rated load AC1 VA Rated load AC15 (230 V AC) VA Single phase motor rating (230 V AC) kW Breaking capacity DC1: 30/110/220 V A Minimum switching load mW (V/mA) Standard contact material Supply specification Nominal voltage (U _N) V AC (50/60 Hz) V DC Rated power AC/DC VA (50 Hz)/W Operating range V AC Specified time range Repeatability	8/15 250/400 2,000 400 0.3 8/0.3/0.12 300 (5/5) AgNi 12240 12240 12240 2.5 (230 V)/1.5 (24 V) 10.8264.5 10.8264.5 See "Time Scale" page 3 ± 1	8/15 250/400 2,000 400 0.3 8/0.3/0.12 300 (5/5) AgNi 12240 12240 12240 2.5 (230 V)/1.5 (24 V) 10.8264.5 10.8264.5 See "Time Scale" page 3 ± 1	
Contact configuration Rated current/Maximum peak current A Rated voltage/Maximum switching voltage V AC Rated load AC1 VA Rated load AC15 (230 V AC) VA Single phase motor rating (230 V AC) kW Breaking capacity DC1: 30/110/220 V A Minimum switching load mW (V/mA) Standard contact material Supply specification Nominal voltage (U _N) V AC (50/60 Hz) V DC Rated power AC/DC VA (50 Hz)/W Operating range V AC Specified time range Repeatability Repeatability % Recovery time ms	8/15 250/400 2,000 400 0.3 8/0.3/0.12 300 (5/5) AgNi 12240 12240 2.5 (230 V)/1.5 (24 V) 10.8264.5 10.8264.5 See "Time Scale" page 3	8/15 250/400 2,000 400 0.3 8/0.3/0.12 300 (5/5) AgNi 12240 12240 12240 2.5 (230 V)/1.5 (24 V) 10.8264.5 10.8264.5 10.8264.5 10.8264.5	
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Contact configuration Rated current/Maximum peak current A Rated voltage/Maximum switching voltage V AC Rated load AC1 VA Rated load AC15 (230 V AC) VA Single phase motor rating (230 V AC) kW Breaking capacity DC1: 30/110/220 V A Minimum switching load mW (V/mA) Standard contact material Supply specification Nominal voltage (U _N) V AC (50/60 Hz) V DC Rated power AC/DC VA (50 Hz)/W Operating range V AC Specified time range V DC Repeatability % Recovery time ms Minimum control impulse ms Setting accuracy-full range %	8/15 250/400 2,000 400 0.3 8/0.3/0.12 300 (5/5) AgNi 12240 12240 12240 2.5 (230 V)/1.5 (24 V) 10.8264.5 10.8264.5 10.8264.5 See "Time Scale" page 3 ± 1 200 - ± 1	8/15 250/400 2,000 400 0.3 8/0.3/0.12 300 (5/5) AgNi 12240 12240 12240 2.5 (230 V)/1.5 (24 V) 10.8264.5 10.8264.5 See "Time Scale" page 3 ± 1 200 - ± 1	
Contact configuration Rated current/Maximum peak current A Rated voltage/Maximum switching voltage V AC Rated load AC1 VA Rated load AC15 (230 V AC) VA Single phase motor rating (230 V AC) kW Breaking capacity DC1: 30/110/220 V A Minimum switching load mW (V/mA) Standard contact material Supply specification Nominal voltage (U _N) V AC (50/60 Hz) V DC Rated power AC/DC VA (50 Hz)/W Operating range V AC Specified time range Repeatability Recovery time ms Minimum control impulse ms Setting accuracy-full range % Electrical life at rated load AC1 cycles	8/15 250/400 2,000 400 0.3 8/0.3/0.12 300 (5/5) AgNi 12240 12240 12240 2.5 (230 V)/1.5 (24 V) 10.8264.5 10.8264.5 See "Time Scale" page 3 ± 1 200 - ± 1 100.10 ³	$8/15$ $250/400$ $2,000$ 400 0.3 $8/0.3/0.12$ $300 (5/5)$ AgNi 12240 12240 12240 $2.5 (230 V)/1.5 (24 V)$ $10.8264.5$ $10.8264.5$ $10.8264.5$ $5ee "Time Scale" page 3$ ± 1 200 $-$ ± 1 100.10^{3}	
Contact configuration Rated current/Maximum peak current A Rated voltage/Maximum switching voltage V AC Rated load AC1 VA Rated load AC15 (230 V AC) VA Single phase motor rating (230 V AC) kW Breaking capacity DC1: 30/110/220 V A Minimum switching load mW (V/mA) Standard contact material Supply specification Nominal voltage (U _N) V AC (50/60 Hz) V DC Rated power AC/DC VA (50 Hz)/W Operating range V AC Specified time range Repeatability Recovery time ms Minimum control impulse ms Setting accuracy-full range % Electrical life at rated load AC1 cycles Ambient temperature range °C	$8/15$ $250/400$ $2,000$ 400 0.3 $8/0.3/0.12$ $300 (5/5)$ AgNi 12240 12240 12240 $2.5 (230 V)/1.5 (24 V)$ $10.8264.5$ $10.8264.5$ $10.8264.5$ $See "Time Scale" page 3$ ± 1 200 $-$ ± 1 100.10^{3} $-10+55$	$8/15$ $250/400$ $2,000$ 400 0.3 $8/0.3/0.12$ $300 (5/5)$ $AgNi$ 12240 12240 12240 $2.5 (230 V)/1.5 (24 V)$ $10.8264.5$ $10.8264.5$ $10.8264.5$ $See "Time Scale" page 3$ ± 1 200 $-$ ± 1 100.10^{3} $-10+55$	
Contact configuration Rated current/Maximum peak current A Rated voltage/Maximum switching voltage V AC Rated load AC1 VA Rated load AC15 (230 V AC) VA Single phase motor rating (230 V AC) kW Breaking capacity DC1: 30/110/220 V A Minimum switching load mW (V/mA) Standard contact material Supply specification Nominal voltage (U _N) V AC (50/60 Hz) V DC Rated power AC/DC VA (50 Hz)/W Operating range V AC Specified time range Repeatability Recovery time ms Minimum control impulse ms Setting accuracy-full range % Electrical life at rated load AC1 cycles	8/15 250/400 2,000 400 0.3 8/0.3/0.12 300 (5/5) AgNi 12240 12240 12240 2.5 (230 V)/1.5 (24 V) 10.8264.5 10.8264.5 See "Time Scale" page 3 ± 1 200 - ± 1 100.10 ³	$8/15$ $250/400$ $2,000$ 400 0.3 $8/0.3/0.12$ $300 (5/5)$ AgNi 12240 12240 12240 $2.5 (230 V)/1.5 (24 V)$ $10.8264.5$ $10.8264.5$ $See "Time Scale" page 3$ ± 1 200 $-$ ± 1 100.10^{3} $-10+55$ $IP 40$	

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88 SERIES finder

Ordering information

Example: 88 series multi-function timer, 2 CO (DPDT) 8 A contacts, (24...230)V AC (50/60 Hz) and (24...230)V DC supply.



Technical data

EMC specifications				
Type of test		Reference standard	88.02/88.12	88.92
Electrostatic discharge contact discharge		EN 61000-4-2	4 kV	4 kV
	air discharge	EN 61000-4-2	8 kV	6 kV
Radio-frequency electromagnetic field (80 ÷ 1,000 MHz)		EN 61000-4-3	10 V/m	10 V/m
Fast transients (burst) (5-50 ns, 5 kHz) on Supply	y terminals	EN 61000-4-4	2 kV	_
Surges (1.2/50 µs) on Supply terminals common mode		EN 61000-4-5	2 kV	-
	differential mode	EN 61000-4-5	1 kV	_
Radio-frequency common mode (0.15 ÷ 80 MHz) on Supply terminals		EN 61000-4-6	3 V	_

Selection of: function, time scale and units

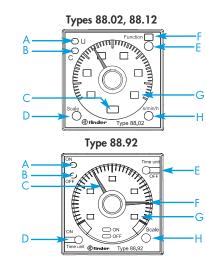
	88.02	88.12	88.92 - 0000	88.92 - 0001
Function	AI, DI, GI, SW, BE, CE, DE	Al a, Al b, Dl a, Dl b, Gl, SW	PI	LI
Time scale	0.5, 1, 5, 10		1.2, 3, 12, 30	
Unit of time	s (second), min (minute), h (hour), 10h (10 hours)		s (second), 10s (second x 10), min (minute),	
			10 min (minute x 10), h (hour),	10h (hour x 10)

Time scales

Full scale value for types 88.02, 88.12					
DH	S	min	h	10h	
0.5	0.5 second	0.5 minute	0.5 hour	5 hour	
1	1 second	1 minute	1 hour	10 hour	
5	5 second	5 minute	5 hour	50 hour	
10	10 second	10 minute	10 hour	100 hour	

Full scale value for type 88.92

H D-E	S	10s	min	10min	h	10h
1.2	1.2 second	12 second	1.2 minute	12 minute	1.2 hour	12 hour
3	3 second	30 second	3 minute	30 minute	3 hour	30 hour
12	12 second	120 second	12 minute	120 minute	12 hour	120 hour
30	30 second	300 second	30 minute	300 minute	30 hour	300 hour



NOTE: time scales and functions must be set before energising the timer.

LED/visual indication

Types 88.02, 88.12

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Α	Yellow LED: power ON (U)	
В	Red LED: timing in progress (C)	
С	Unit of time selected	
D	Time scale selector	
E	Function selector	
 F	Function selected	
G	Time scale selected	
Н	Unit of time selector	

Туре 88.92

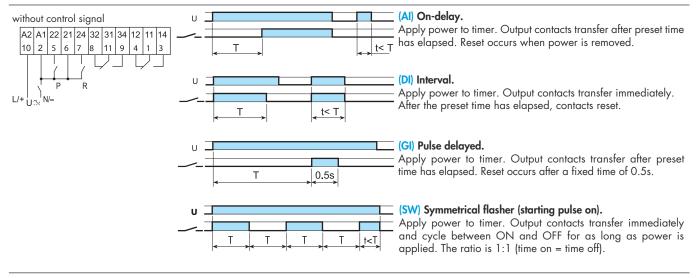
.,	
Α	Red LED: pulse ON (T1)
В	Green LED: pulse OFF (T2)
С	Red timing regulator: T1 time setting
D	Unit of time selector: T1 (ON)
E	Unit of time selector: T2 (OFF)
F	Green timing regulator: T2 time setting
G	Time scale selected
Н	Time scale selector

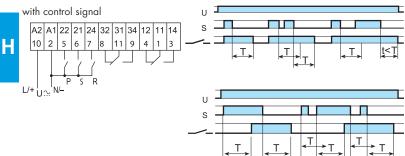
Functions for types 88.02, 88.12

U	=Supply Voltage	LED (yellow)	LED (red)	Supply voltage	NO output contact	Con Open	tact Closed
S	= Signal switch			OFF	Open	x1 - x4	x1 - x2
P	=Pause	_		ON	Open	x1 - x4 x1 - x2	x1 - x2 x1 - x4
R	= Reset			ON	Open (timing in progress)	x1-x4	x1 - x2
_	- = Output Contact			ON	Closed	x1 - x2	x1 - x4

Wiring diagram

Type 88.02





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(BE) Off-delay with control signal.

Power is permenently applied to the timer. The output contacts transfer immediately on closure of the Signal Switch (S). Opening the Signal Switch initiates the

preset delay, after which time the output contacts reset.

(CE) On- and off-delay with control signal.

Power is permenently applied to the timer. Closing the Signal Switch (S) initiates the preset delay, after which time the output contacts transfer. Opening the Signal switch initiates the same preset delay, after which time the output contacts reset.

(DE) Interval with control signal on.

Power is permenently applied to the timer. On momentary or maintained closure of Signal Switch (S), the output contacts transfer, and remain so for the duration of the preset delay, after which they reset.

RESET (R)

A momentary closure of the reset switch (2-7) will reset the timer. Longer term closure of the reset switch will hold the timer in the reset state. This is applicable for all functions.

PAUSE (P)

Closure of the pause switch (2-5) will immediately halt the timing process, but the elapsed time will be retained, and the current state of the output contacts will be maintained.

On opening of the pause switch, timing resumes from the retained value. This is applicable for all functions.

Functions for type 88.12

C₂



2

U₂

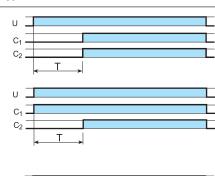
without control signal

C

A1 A2 12 11 14 22 21 24

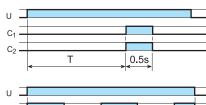
7 4 1 3 5 8 6

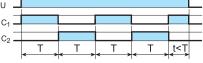












(DI b) Interval (1 timed contact + 1 instantaneous contact).

Output contacts (C_1 and C_2) transfer immediately.

After preset time has elasped, the contacts reset.

(Al a) On-delay (2 timed contacts).

occurs when power is removed.

(DI a) Interval (2 timed contacts).

Apply power to timer.

Reset occurs when power is removed.

Apply power to timer.

(Al b) On-delay

Apply powert to timer. Output contacts (C_1 and C_2) transfer immediately. After preset time has elasped, the contact (C_2) resets. Contact (C_1) resets when power is removed.

Contacts (C1 and C2) transfer after preset time has elasped.

Apply power to timer. Output contact (C1) transfers immediately.

Contact (C₂) transfers after the preset time has elasped. Reset

(1 timed contact + 1 instantaneous contact).

(GI) Pulse delayed.

Apply power to timer. Output contacts transfer after preset time has elapsed. Reset occurs after a fixed time of 0.5s.

(SW) Symmetrical flasher (starting pulse on).

Apply power to timer. Output contacts transfer immediately and cycle between ON and OFF for as long as power is applied. The ratio is 1:1 (time on = time off).

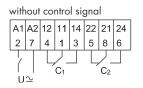
Functions for type 88.92

U = Supply Voltage

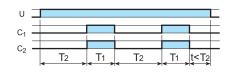
LED ON	LED OFF	Supply	Cor	ntact
(red)	(green)	voltage	Open	Closed
		OFF	11 - 14 21 - 24	11 - 12 21 - 22
		ON	11 - 12 21 - 22	11 - 14 21 - 24
		ON	11 - 14 21 - 24	11 - 12 21 - 22

Wiring diagram

Туре 88.92



$\begin{array}{c|c} U \\ C_1 \\ C_2 \\ \hline T_1 \\ T_2 \\ \hline T_1 \\ T_2 \\ T_2 \\ T_1 \\ T_1 \\ T_2 \\ T_1 \\ T_2 \\ T_1 \\ T_1 \\ T_2 \\ T_1 \\ T_1 \\ T_2 \\ T_1 \\ T$



(LI) Asymmetrical flasher (starting pulse ON).

Apply power to timer. Output contacts transfer immediately and cycle between ON and OFF for as long as power is applied. The ON and OFF times are independently adjustable.

(PI) Asymmetrical flasher (starting pulse OFF).

Apply power to timer. Output contacts transfer after time T2 has elapsed and cycle between OFF and ON for as long as power is applied. The ON and OFF times are independently adjustable.

90 Series - Sockets and Accessories for 88 series Timers



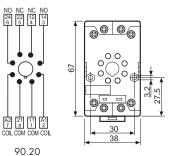
Screw terminal (Box clamp) socket panel or 35 mm rail (EN 60715) mount	90.20 Blue	90.20.0 Black	90.21 Blue	90.21.0 Black
		1		DIGCK
For timer type	88.12, 88.92	2	88.02	
Technical data				
Rated values	10 A - 250 V			
Dielectric strength	2 kV AC			
Protection category	IP 20			
Ambient temperature °	C -40+70			
Screw torque	n 0.5			
Wire strip length m	m 10			
Max. wire size for 90.20 and 90.21 sockets	solid wire		stranded wire	•
mr	¹ ² 1x6 / 2x2.5		1x6 / 2x2.5	
AW	G 1x10/2x14		1x10 / 2x14	

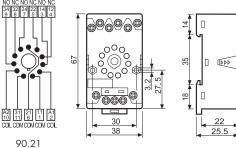
90.26

88.12, 88.92

10 A - 250 V

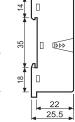
Blue





90.26.0

Black



90.27

88.02

stranded wire 1x4 / 2x2.5 1x12 / 2x14

Blue

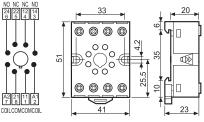
90.27.0 Black

finder

	Screw terminal (Plate clamp) socket
	panel or 35 mm rail (EN 60715) mount
90.26	For timer type
	Technical data
	Rated values
Approvals	Dielectric strength
(according to type):	Protection category
(6 🖲 💽 🕲	Ambient temperature
	🕀 Screw torque



Dielectric strength		2 kV AC
Protection category		IP 20
Ambient temperature	°C	-40+70
🕀 Screw torque	Nm	0.8
Wire strip length	mm	10
Max. wire size for 90.26 and 90.27 sockets		solid wire
	mm ²	1x4 / 2x2.5
	AWG	1x12 / 2x14
		NC NO com NC 32 24 21 22 17 5 ↓ 35 → 35 → 35 → 35 → 35 → 35 → 35 →



90.26

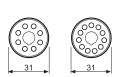




000 П 20 Ø 0 000 A1 2 A2 10 $\begin{array}{c}
 31 \\
 11 \\
 1
 \end{array}$ 27.6 COL COMCOM COL

90.27

Sockets 8-11 pin backwired with solder terminals	90.12.4 (black)	90.13.4 (black)
For timer type	88.12, 88.92	88.02
Technical data		
Rated values	10 A - 250 V	
Dielectric strength	2 kV AC	
Ambient temperature °C	2 -40+70	





32.

Ø 31

90.12.4

90.13.4



Η