

SELECTION GUIDE

Timers



finder[®]
SWITCH TO THE FUTURE



NEW

2in1

SMARTimer Type 84.02



Digital Timer “Two in one”:
two totally independent
programmable channels,
in a single product

A step forward for easier, quick and flexible
programming right from your smartphone.
With NFC technology and
“Finder Toolbox” Android App.

FEATURES

- Two programming modes: “Smart” mode via smartphone with NFC communication or “Classic” mode via the joystick
- Wide backlit display for easy reading of all information during the programming phase and during normal operation
- Flexibility: it’s possible to create new specific functions, mixing the 25 available functions on each channel
- High precision and possibility of choice in time set-up:
 - Time units; 0.1 seconds, seconds, minutes, hours
 - Set-time to 4 digits, anywhere between 000.1 second and 9999 hours
- Large display allows easy viewing: set time, current time, timing in progress, input command state, output state
- 1 CO (16 A) + 1 CO (16 A) output contacts



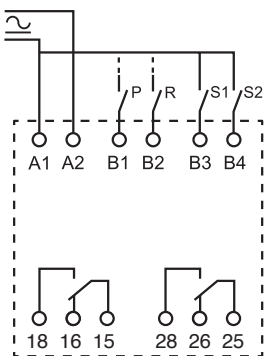
Type 84.02.0.230.0000

- Nominal voltage:
110...240 V AC/DC (non-polarized)
- Operating range:
90...264 V AC/DC (47/63Hz)

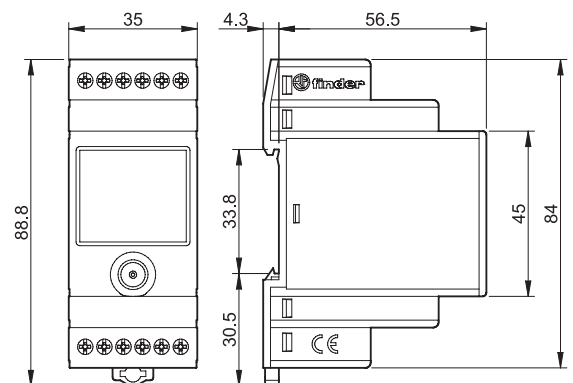


Type 84.02.0.024.0000

- Nominal voltage:
12...24 V AC/DC (non-polarized)
- Operating range:
10...30 V AC/DC (47/63Hz)
- It’s possible to directly connect
timer input to proximity sensors
(both PNP and NPN)



- Two independent Start input - one per channel
- One common Reset input (select to apply to either, or both, channels)
- One common Pause input (select to apply to either, or both, channels)
- PIN to protect access to programming session
- Up or Down timing modes
- Setting accuracy-full range: $\pm 0,05\%$
- Ambient temperature range: $-20^{\circ} + 50^{\circ}$
- 35 mm rail (EN 60715) mount



TIMER-SOCKET COMPATIBILITY



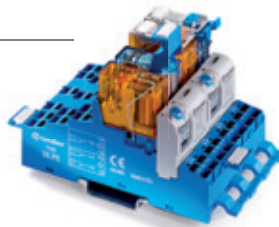
85 SERIES TIMERS

COMPATIBLE with all 94 Series sockets



88 SERIES TIMERS

COMPATIBLE with all 90 Series sockets



86 SERIES TIMER MODULES

TYPE 86.00

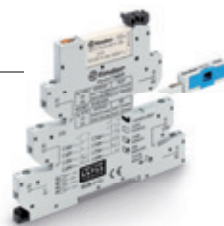
COMPATIBLE with the following socket Types:

90.02, 90.03
92.03
96.04

TYPE 86.30

COMPATIBLE with the following socket Types:

90.02, 90.03
92.03
96.02, 96.04
94.02, 94.03, 94.04, 94.54, 94.P3, 94.P4
97.01, 97.02, 97.51, 97.52, 97.P1, 97.P2
95.03, 95.05, 95.55, 95.P3, 95.P5



93 SERIES TIMER SOCKETS

Timer socket 93.21

with relay, comprises the following interface
38.21 (SSR / EMR)

Dual screw head (blade + cross) terminals

Timer socket 93.68

with relay, comprises the following interfaces
39.81 (EMR)

Dual screw head (blade + cross) terminals

39.80 (SSR)

Dual screw head (blade + cross) terminals

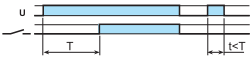
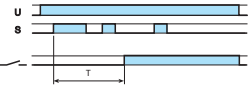
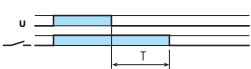
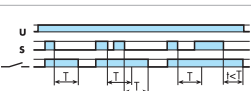


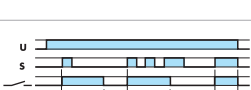

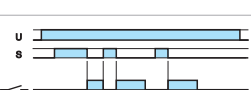

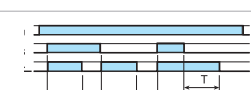


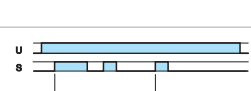
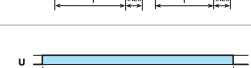

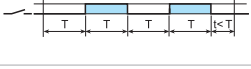
Timer socket 93.69

with relay, comprise the following interfaces
39.91 (EMR) - Push-in terminals

39.90 (SSR) - Push-in terminals

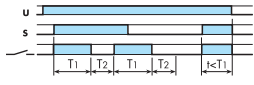
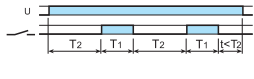
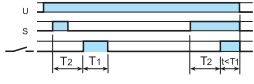
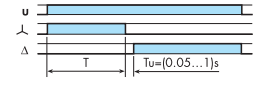
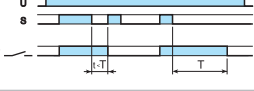
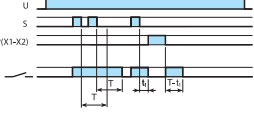
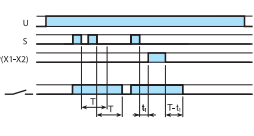
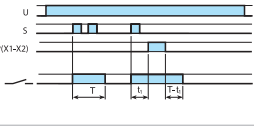
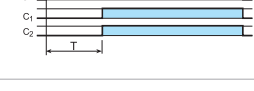
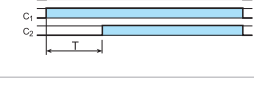
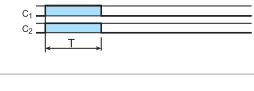
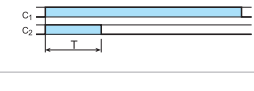




NEW

FUNCTIONS PAGE 1

| | | 80 SERIES | 81 SERIES | 83 SERIES | 84 SERIES | 85 SERIES | 86 SERIES | 88 SERIES | 93 SERIES |
|------------|---|-------------------------|--------------|-------------------------|--------------|-------------------------|----------------|----------------|-------------------------|
| AI |  ON-DELAY | 80.01 80.11 80.71 | 81.01 | 83.01 83.02 83.11 | 84.02 | 85.02 85.03 85.04 | 86.00 86.30 | 88.02 | 93.21 93.68 93.69 |
| AE |  ON-DELAY WITH CONTROL SIGNAL | | | 83.52 | 84.02 | | | | |
| BI |  POWER OFF-DELAY (True off-delay) | 80.61 | | 83.62 | | | | | |
| BE |  OFF-DELAY WITH CONTROL SIGNAL | 80.01 80.41 80.71 | 81.01 | 83.01 83.02 83.41 | 84.02 | | 86.00 | 88.02 | 93.68 93.69 |
| CE |  ON- AND OFF-DELAY WITH CONTROL SIGNAL | 80.01 80.71 | | 83.01 83.02 | 84.02 | | 86.00 | 88.02 | 93.68 93.69 |
| DI |  INTERVAL | 80.01 80.21 80.71 | 81.01 | 83.01 83.02 83.21 | 84.02 | 85.02 85.03 85.04 | 86.00 86.30 | 88.02 | 93.21 93.68 93.69 |
| DE |  INTERVAL WITH CONTROL SIGNAL ON | 80.01 80.71 | 81.01 | 83.01 83.02 | 84.02 | | 86.00 | 88.02 | 93.68 93.69 |
| EE |  INTERVAL WITH CONTROL SIGNAL OFF | | | | 84.02 | | 86.00 | | 93.68 93.69 |
| EEa |  INTERVAL WITH CONTROL SIGNAL OFF (retriggerable) | | | 83.52 | 84.02 | | | | |
| EEb |  INTERVAL WITH CONTROL SIGNAL OFF | | 81.01 | | 84.02 | | | | |
| FE |  INTERVAL WITH CONTROL SIGNAL ON AND OFF | | | 83.52 | 84.02 | | 86.00 | | |
| WD |  WATCHDOG (Retriggerable interval with control signal on) | | | 83.01 83.02 | 84.02 | | | | |
| GI |  PULSE DELAYED | | | 83.01 83.02 | 84.02 | 85.02 85.03 85.04 | | 88.02 88.12 | 93.21 93.68 93.69 |
| GE |  PULSE DELAYED WITH CONTROL SIGNAL ON | | | 83.52 | 84.02 | | | | |
| SW |  SYMMETRICAL FLASHER (starting pulse on) | 80.01 80.71 | 81.01 | 83.01 83.02 | 84.02 | 85.02 85.03 85.04 | 86.00 | 88.02 88.12 | 93.21 93.68 93.69 |
| SP |  SYMMETRICAL FLASHER (starting pulse off) | | 81.01 | | 84.02 | | | | |
| LI |  ASYMMETRICAL FLASHER (starting pulse on) | 80.91 | | 83.91 | 84.02 | | | 88.92.0001 | |

NEW

FUNCTIONS PAGE 2

| | | 80 SERIES | 81 SERIES | 83 SERIES | 84 SERIES | 85 SERIES | 86 SERIES | 88 SERIES | 93 SERIES |
|-------------|---|--------------|--------------|--------------|--------------|--------------|--------------|--------------|--------------|
| LE |  <p>ASYMMETRICAL FLASHER (starting pulse on) WITH CONTROL SIGNAL</p> | 80.91 | | 83.91 | 84.02 | | | | |
| PI |  <p>ASYMMETRICAL FLASHER (starting pulse off)</p> | | | 83.91 | 84.02 | | | 88.92.0000 | |
| PE |  <p>ASYMMETRICAL FLASHER (starting pulse off) WITH CONTROL SIGNAL</p> | | | 83.91 | 84.02 | | | | |
| SD |  <p>STAR-DELTA</p> | 80.82 | | 83.82 | 84.02 * | | | | |
| IT |  <p>TIMING STEP</p> | | | 83.52 | 84.02 | | | | |
| SHp |  <p>"Shower" FUNCTION</p> | | | 83.52 | 84.02 | | | | |
| BEp |  <p>OFF-DELAY WITH CONTROL SIGNAL AND PAUSE SIGNAL</p> | | | 83.52 | 84.02 | | | | |
| DEp |  <p>INTERVAL WITH CONTROL SIGNAL ON AND PAUSE SIGNAL</p> | | | 83.52 | 84.02 | | | | |
| Al a |  <p>ON-DELAY (2 timed contacts)</p> | | | | 84.02 * | | | 88.12 | |
| Al b |  <p>ON-DELAY (1 timed + 1 instantaneous contact)</p> | | | | 84.02 * | | | 88.12 | |
| DI a |  <p>INTERVAL (2 timed contacts)</p> | | | | 84.02 * | | | 88.12 | |
| DI b |  <p>INTERVAL (1 timed + 1 instantaneous contact)</p> | | | | 84.02 * | | | 88.12 | |
| OFF |  <p>RELAIS OFF The output contact stays permanently open</p> | | | | 84.02 | | | | |
| ON |  <p>RELAIS ON The output contact stays permanently closed</p> | | | | 84.02 | | | | |
| SS |  <p>MONOSTABLE CONTROLLED BY SIGNAL SWITCH The output contact follows the status of Signal Switch (S)</p> | | | | 84.02 | | | | |
| PS |  <p>MONOSTABLE CONTROLLED BY PAUSE SWITCH The output contact follows the status of Pause Switch (P)</p> | | | | 84.02 | | | | |

* Achievable by combining basic functions

NOTE - 80, 81, 83, 93 Series: for 35 mm rail (EN 60715) mounting - 85, 86, 88 Series: plug-in connection/mount