

## SELECTION GUIDE

# Timers



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## Series 80 - Modular multi-function and single-function timers

- "PWM clever" technology for automatic recognition and regulation of the supply voltage, resulting in a wide nominal voltage range of 12 to 240 V AC or (non polarized) DC
- Rated current up to 16 A; a version with 1 A SSR output is also available
- Six time scales from 0.1s to 24h
- High input/output isolation
- "Blade + cross" - both flat blade and crosshead screwdrivers can be use on rotary selectors and terminals



## 83 Series - Modular timers 22.5 mm, multi-function and mono-function types available

- "PWM clever" technology for automatic recognition and regulation of the supply voltage, resulting in a wide nominal voltage range of 12 to 240 V AC or (non polarized) DC
- Rated current up to 16 A
- Versions available with: 2 timed contacts, or 1 timed contact + 1 instantaneous contact: adjustable timing by means of an external potentiometer
- Eight time scales from 0.05s to 10 days
- High input/output isolation



## 84 Series - SMARTimer, digital multi-fuction modular timer

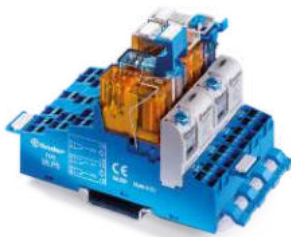
### - Programming mode via Smartphone with NFC technology (Android and iOS) and the Finder Toolbox App

- Wide backlit LCD display
- Multi-function (the 30 functions for each channel can be combined between the two channels to create new functions)
- High precision and flexibility, adjustable in tenths of a second, seconds, minutes, hours
- 2 CO 16 A output contacts
- Two supply version available: 12...24 V AC/DC or 110...240 V AC/DC



## 85 Series - Multi-function Miniature plug-in timers. Plug-in for use with 94 series sockets

- AC/DC supply non polarized
- Seven time scales from 0.05s to 100h
- Contacts with rated current up to 10 A
- 2, 3 or 4 changeover contacts



## 86 Series - Plug-in Timer modules for use with relay & socket

- Wide supply voltage range
- Seven time scales from 0.05s to 100h
- LED indication

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



## 88 Series - Plug-in or panel mount timers

- Multi-function or Mono-function
- 8 or 11 pins for use with 90 series sockets
- Time scales from 0.05s to 100h
- Wide supply voltage range
- Versions available: 2 timed contacts or 1 timed contact + 1 instantaneous contact
- Compatible with all 90 series sockets

## 93 Series - Multi-function slim timed sockets for 34 series relays

- 6.2 mm wide
- EMR and SSR: 12 to 24 V AC/DC supply
- DIP-switch for selection of 4 time scales (from 0.1 s to 6 h) and 8 functions
- LED indication



Timer socket 93.21 with relay, comprises the following interface: 38.21 (SSR / EMR) - screw terminals

Timer socket 93.68 with relay, comprises the following interfaces: 39.81 (EMR) - screw terminals  
39.80 (SSR) - screw terminals

Timer socket 93.69 with relay, comprise the following interfaces: 39.91 (EMR) - Push-in terminals  
39.90 (SSR) - Push-in terminals

# FUNCTIONS

			80 SERIES	83 SERIES	84 SERIES	85 SERIES	86 SERIES	88 SERIES	93 SERIES
<b>AI</b>	On-delay		80.01 80.11 80.71	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
<b>AE</b>	On-delay with control signal			83.52	84.02				
<b>AC</b>	On-delay with maintained control signal				84.02				
<b>BI</b>	Power off-delay (True off-delay)		80.61	83.62					
<b>BE</b>	Off-delay with control signal		80.01 80.41 80.71	83.01 83.02 83.41	84.02		86.00	88.02	93.68 93.69
<b>CE</b>	On- and off-delay with control signal		80.01 80.71	83.01 83.02			86.00		93.68 93.69
<b>CEa</b>	On- and off-delay with control signal							88.02	
<b>CEb</b>	On and off independent delays with control signal				84.02				
<b>DI</b>	Interval		80.01 80.21 80.71	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
<b>DE</b>	Interval with control signal on		80.01 80.71	83.01 83.02	84.02		86.00	88.02	93.68 93.69
<b>DC</b>	Interval with maintained control signal				84.02				
<b>EE</b>	Interval with control signal off				84.02		86.00		93.68 93.69
<b>EEa</b>	Interval with control signal off (retriggerable)			83.52	84.02				
<b>EEb</b>	Interval with control signal off				84.02				

**FUNCTIONS**

			80 SERIES	83 SERIES	84 SERIES	85 SERIES	86 SERIES	88 SERIES	93 SERIES
<b>FE</b>	Interval with control signal on and off			83.52	84.02		86.00		
<b>WD</b>	Watchdog (retriggerable interval with control signal on)			83.01 83.02	84.02				
<b>GI</b>	Pulse delayed			83.01 83.02	84.02	85.02 85.03 85.04		88.02 88.12	93.21 93.68 93.69
<b>GE</b>	Pulse delayed with control signal on			83.52	84.02				
<b>GC</b>	Pulse delayed with maintained control signal				84.02				
<b>SW</b>	Symmetrical flasher (starting pulse on)		80.01 80.71	83.01 83.02	84.02	85.02 85.03 85.04	86.00	88.12	93.21 93.68 93.69
<b>SP</b>	Symmetrical flasher (starting pulse off)				84.02			88.02	
<b>LI</b>	Asymmetrical flasher (starting pulse on)		80.91	83.91	84.02			88.92. 0001	
<b>LE</b>	Asymmetrical flasher (starting pulse on) with control signal		80.91	83.91	84.02				
<b>LC</b>	Asymmetrical flasher (starting pulse on) with maintained control signal				84.02				
<b>PI</b>	Asymmetrical flasher (starting pulse off)			83.91	84.02			88.92. 0000	
<b>PE</b>	Asymmetrical flasher (starting pulse off) with control signal			83.91	84.02				
<b>PC</b>	Asymmetrical flasher (starting pulse off) with maintained control signal				84.02				
<b>SD</b>	Star-delta		80.82	83.82	84.02*				

# FUNCTIONS

		80 SERIES	83 SERIES	84 SERIES	85 SERIES	86 SERIES	88 SERIES	93 SERIES
<b>IT</b>	Timing step			83.52 84.02				
<b>SHp</b>	"Shower" (off-delay with control signal and pause signal)			83.52 84.02				
<b>BEp</b>	Off-delay with control signal and pause signal			83.52 84.02				
<b>DEp</b>	Interval with control signal on and pause signal			83.52 84.02				
<b>Ala</b>	On-delay (2 timed contacts)						88.12	
<b>Alb</b>	On-delay (1 timed contact + 1 instantaneous contact).						88.12	
<b>Dla</b>	Interval (2 timed contacts)						88.12	
<b>Dlb</b>	Interval (1 timed contact + 1 instantaneous contact)						88.12	
<b>OFF</b>	Relay OFF The output contact stays permanently open							84.02
<b>ON</b>	Relay ON The output contact stays permanently closed							84.02
<b>SS</b>	Monostable controlled by Signal switch The output contact follows the status of Signal Switch (S)							84.02
<b>PS</b>	Monostable controlled by Pause switch. The output contact follows the status of Pause Switch (P)							84.02

\* Achievable by combining basic functions

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





FINDER S.p.A. sole proprietorship  
Via Drubiaglio, 14 - 10040 ALMESE (TO) ITALY  
tel +39 011 9346211 - export@findernet.com

findernet.com



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