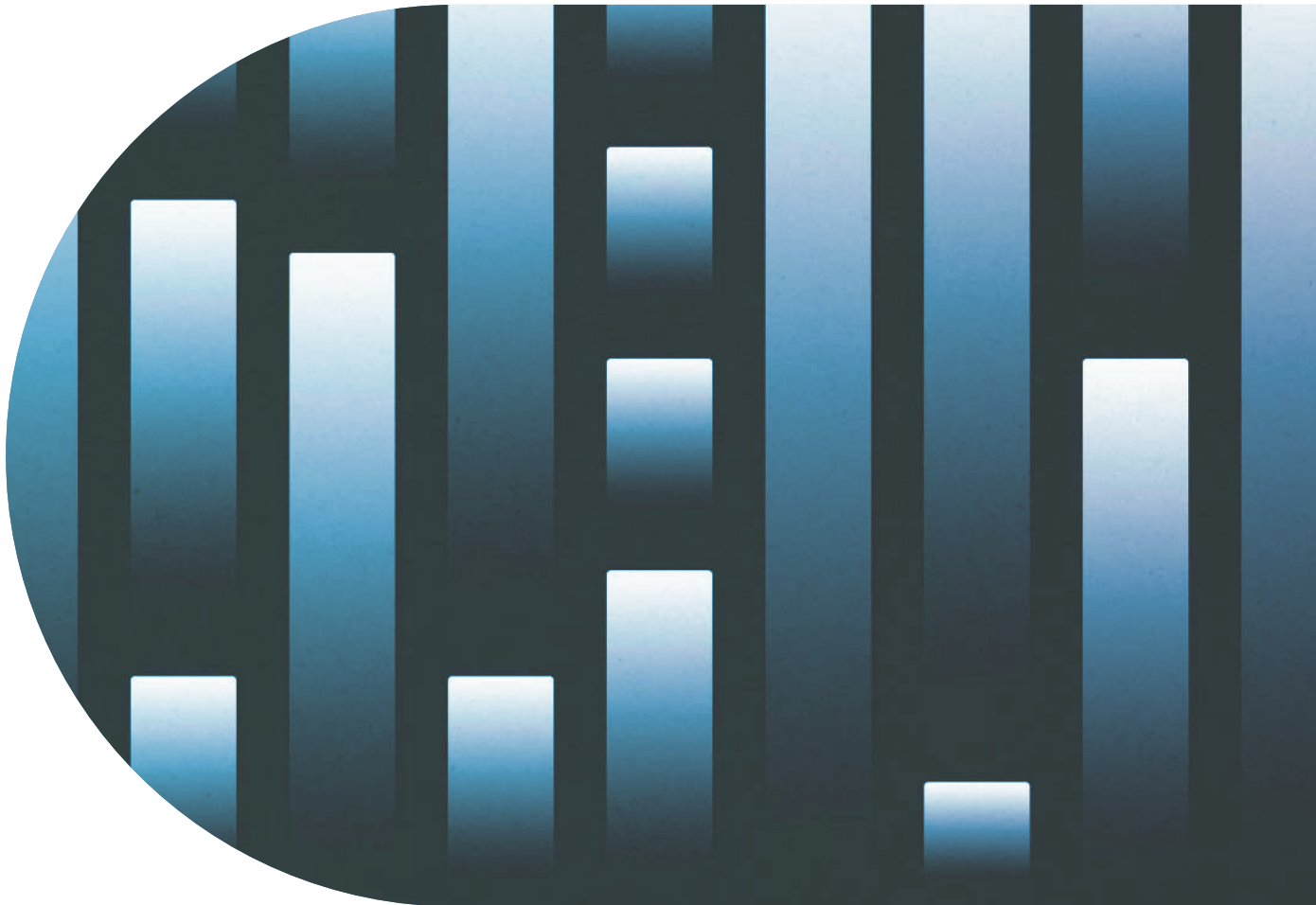
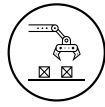


## SELECTION GUIDE

### TIMERS



# TIMERS



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

- "PWM clever" technology for automatic recognition of input voltage
- Wide nominal voltage range of 12 to 240 V AC or (non polarized) DC
- Rated current up to 16 A
- Available version with a 1A SSR output and NFC version, programmable with Android and iOS smartphones via NFC and the Finder Toolbox app
- Six time scales from 0.1s to 24h
- High input/output isolation
- "Blade + cross" - both flat blade and cross head screw drivers can be used to adjust the range and function selectors, the timing trimmer, and to disengage the rail mounting clip



## 81 Series - Modular timers with start and reset function

- Multi-function (7 functions, 4 with supply start and 3 with control signal)
- Reset function
- "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
- DIP switch for time and function controls
- Nominal current 16 A
- Six time scales from 0.1s to 10h



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

- "PWM clever" technology for automatic recognition of input voltage
- 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



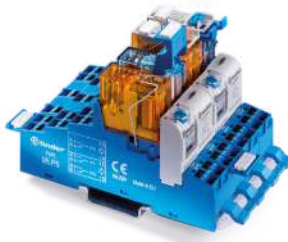
## 84 Series - SMARTimer, digital multi-function modular timer

- Programmable with Android and iOS smartphones via NFC and the Finder Toolbox app
- Wide backlit LCD display
- 30 available functions on each channel
- Pause input and Reset input settable on each channel; Adjustable lock PIN
- High precision and flexibility, adjustable in tenths of a second, seconds, minutes, hours
- 2 CO 16 A output independent contacts
- Supply voltage: 12...24 V AC/DC or 110...240 V AC/DC



## Serie 85 - Plug-in timer, multi-voltage and multi-function

- AC/DC supply non polarized; nominal voltage from 12 to 240 V
- 2, 3 or 4 changeover contacts
- Contacts with rated current up to 10 A
- Seven time scales, from 0.05 s to 100 h
- 94 series sockets for 35 mm rail (EN 60715) mount



## 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	81 SERIES	83 SERIES	84 SERIES	85 SERIES	86 SERIES	88 SERIES	93 SERIES
<b>AI</b>	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
<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	81.01	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	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
<b>DE</b>	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
<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			81.01		84.02				

FUNCTIONS			80 SERIES	81 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	81.01	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)			81.01		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*				

\* 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

FUNCTIONS			80 SERIES	81 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)					84.02*			88.12	
<b>Alb</b>	On-delay (1 timed contact + 1 instantaneous contact)					84.02*			88.12	
<b>Dla</b>	Interval (2 timed contacts)					84.02*			88.12	
<b>Dlb</b>	Interval (1 timed contact + 1 instantaneous contact)					84.02*			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				

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