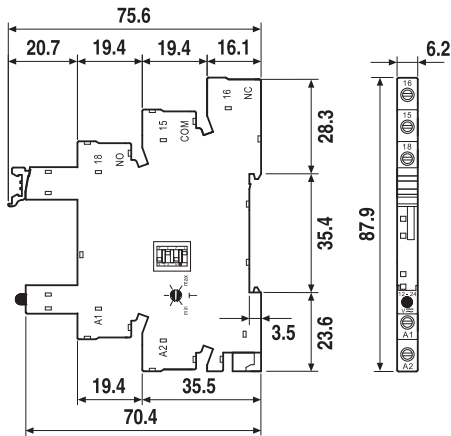


## Features

Slim timed sockets for 34 series, 6.2 mm wide

- Multi-function timer
- AC and DC supply
- 4 time scales from 0.1s to 6h
- LED indicator

93.21  
Screw terminal

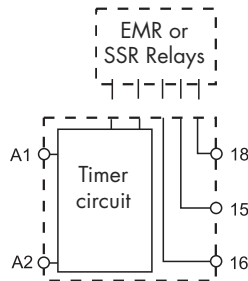


**NEW** 93.21



- Time scale: from 0.1s to 6h
- Multi-function
- For use with 34.51 and 34.81 relays

**AI:** ON delay  
**DI:** ON pulse  
**GI:** Fixed pulse (0.5s) delayed  
**SW:** Symmetrical recycling: ON start



### Contact specification

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

See 34.51 and 34.81 relays

### Supply specification

Nominal voltage (U<sub>N</sub>) V AC (50/60 Hz)

12...24

V DC

12...24

Rated power AC/DC VA/W

0.7/0.5

Operating range V AC (50/60 Hz)

9.6...26.4

DC

9.6...26.4

### Technical data

Specified time range

(0.1...3)s, (3...60)s, (1...20)min, (0.3...6)h

Repeatability %

± 1

Recovery time ms

≤ 50

Setting accuracy full range %

± 5

Electrical life at rated load in AC1 cycles

See 34.51 (EMR) and 34.81 (SSR) relays

Ambient temperature range °C

-40...+70 (EMR) / -40...+55 (SSR)

Protection category

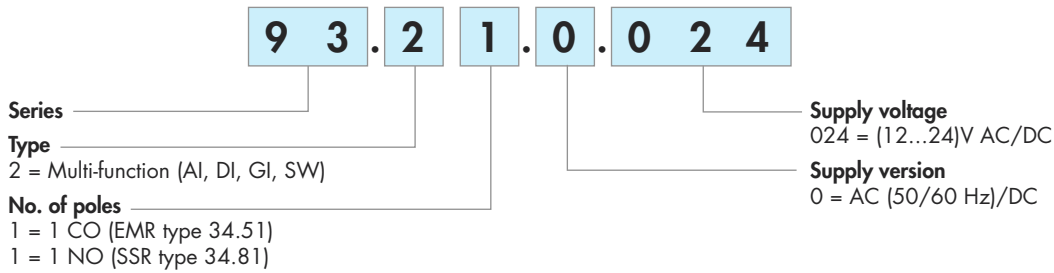
IP 20

Approvals (according to type)



## Ordering information

Example: type 93.21 multi-function timer module for 34 series relay, (12...24)V AC/DC supply voltage.



## Combinations

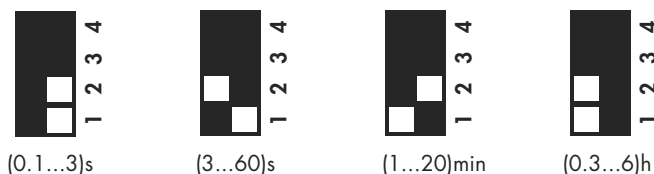
Output	Supply voltage	Type of relay	Type of socket
1 pole 6A, electromechanical relay	12 V AC/DC	34.51.7.012.0010	93.21.0.024
1 pole 6A, electromechanical relay	24 V AC/DC	34.51.7.024.0010	93.21.0.024
1 output 2A 24 V DC, solid state relay	24 V AC/DC	34.81.7.024.9024	93.21.0.024
1 output 2A 240 V AC, solid state relay	24 V AC/DC	34.81.7.024.8240	93.21.0.024

Note: Although the timer socket covers both 12 and 24 volt supplies, it must be combined with the appropriate 12 V or 24 V relay; resulting in a combination suitable for just a single supply voltage.

## Technical data

EMC specifications			
Type of test		Reference standard	
Electrostatic discharge	contact discharge	EN 61000-4-2	4 kV
	air discharge	EN 61000-4-2	8 kV
Radio-frequency electromagnetic field (80 ÷ 1000 MHz)		EN 61000-4-3	10 V/m
Fast transients (burst) (5-50 ns, 5 kHz) on Supply 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	10 V
Radiated and conducted emission		EN 55022	class B
Other data		EMR	SSR
Power lost to the environment	without contact current	W	0.1
	with rated current	W	0.6
Wire strip length		mm	10
⊖ Screw torque		Nm	0.5
Max. wire size	solid cable		stranded cable
	mm <sup>2</sup>	1x2.5 / 2x1.5	1x2.5 / 2x1.5
	AWG	1x14 / 2x16	1x14 / 2x16

## Times scales



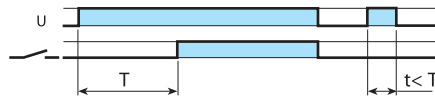
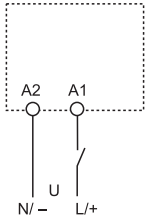
## Functions

LED	Supply voltage	NO contact/output
	OFF	Open
	ON	Open (time in progress)
	ON	Closed

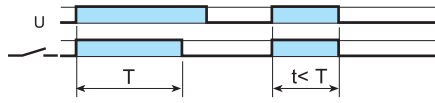
## Wiring diagram

U = Supply voltage

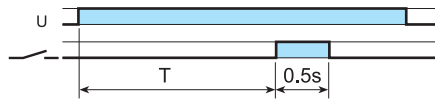
= Output contact



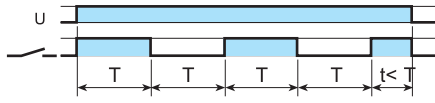
**(AI) ON delay.**  
Apply power to timer. Output contacts transfer after preset time has elapsed. Reset occurs when power is removed.



**(DI) ON pulse.**  
Apply power to timer. Output contacts transfer immediately. After the preset time has elapsed, contacts reset.

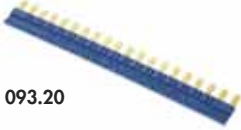


**(GI) Fixed pulse (0.5s) delayed.**  
Apply power to timer. Output contacts transfer after preset time has elapsed. Reset occurs after a fixed time of 0.5s.



**(SW) Symmetrical recycling: ON start.**  
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).

## Accessories

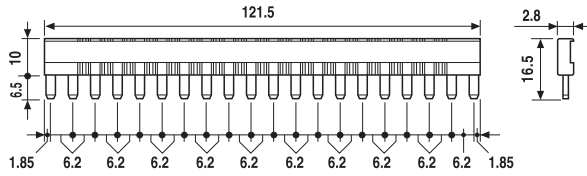


093.20

Approvals  
(according to type):



<b>20-way jumper link</b>	093.20 (blue)
Rated values	36 A - 250 V



093.01

<b>Plastic separator</b>	093.01
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Thickness 2 mm, required at the start and the end of a group of interfaces.  
Can be used for visual separation group, must be used for:

- protective separation of different voltages of neighbouring PLC interfaces according to VDE 0106-101
- protection of cut jumper links



093.64

<b>Sheet of marker tags, plastic, 64 tags, 6x10 mm</b>	093.64
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