

# Product Profile

## Bulletin 700-FS

Rockwell Automation is introducing a new line of Allen-Bradley DIN rail timing relays. Our Bulletin 700-FS DIN Rail High-performance Timing Relays have been created with single function or multi-function use in mind to help you reduce stock and standardize your design.

### Full Featured

The 700-FS is a multi-function timing relay with 12 timing modes, SPDT or DPDT contact output, and adjustable timing ranges.

### Easy to Use

The performance and installation of the new 700-FS timer is comparable to the existing family of timers.

### Din Rail Mounted

The 700-FS timer can be directly mounted on a DIN rail which eliminates the need for a socket while reducing overall space requirements.

### Highlights

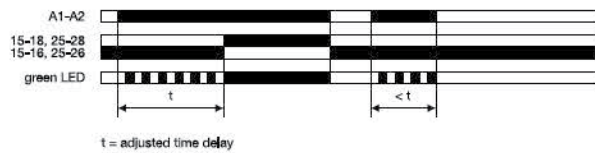
- Only 22.4 mm wide for space sensitive applications
- Single function or multi-function units
- Time range from 0.05 seconds to 300 hours
- 5 A contact rating
- Coil surge protection
- Hazardous location version available

## Din Rail Timing Relays

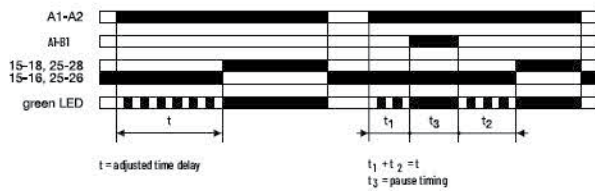


## Function Diagrams - 700-FS Relays

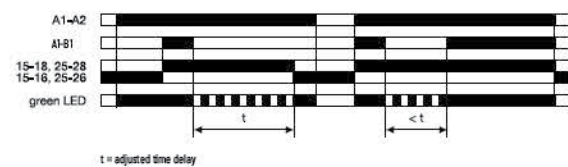
### (A) ON-Delay



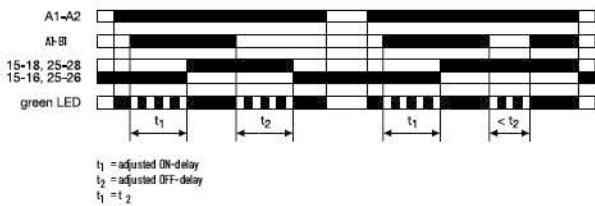
### (A+) Accumulative ON-delay



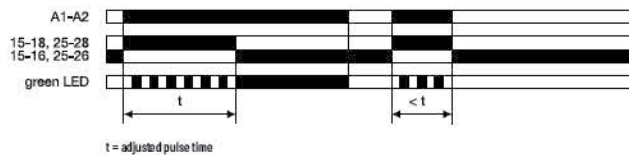
### (B) OFF-delay with Auxiliary Voltage



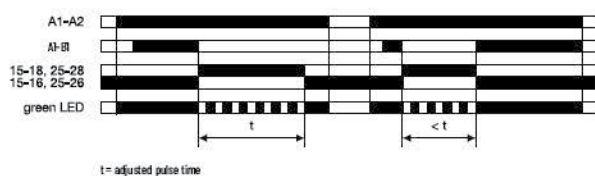
### (C) ON-delay and OFF-delay, Symmetrical



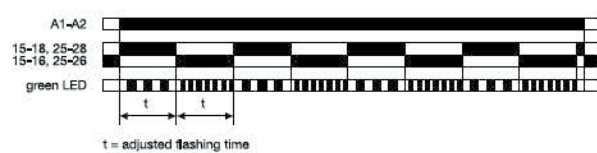
### (D) Impulse-ON



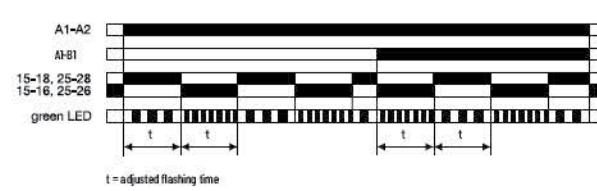
### (E) Impulse-OFF with Auxiliary Voltage



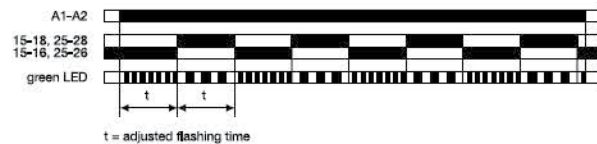
### (F) Flasher, Starting with ON



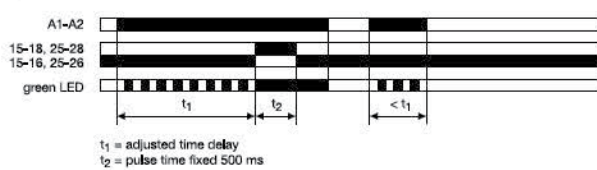
### (FG) Flasher, Starting with ON or OFF



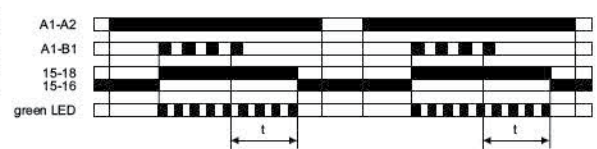
### (G) Flasher, Starting with OFF



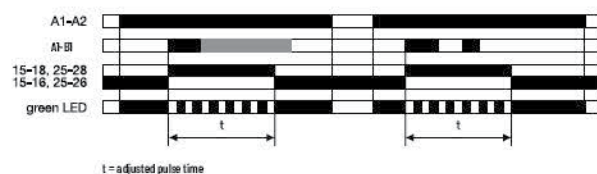
### (I) Fixed Impulse with Adjustable Time Delay



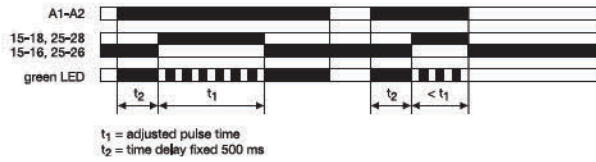
### (K) One Shot with B1



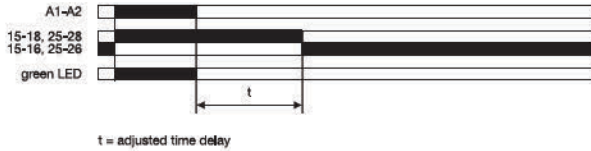
### (L) Pulse Former



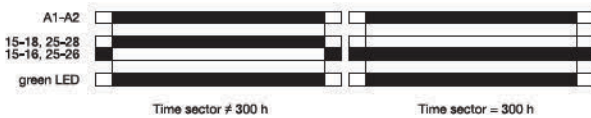
### (M) Adjustable Impulse with Fixed Time Delay



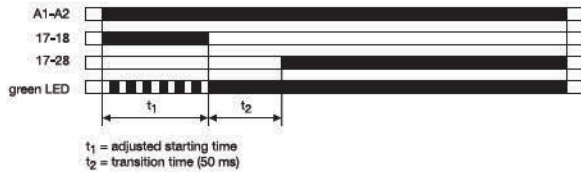
### (Q) OFF-delay without Auxiliary Voltage



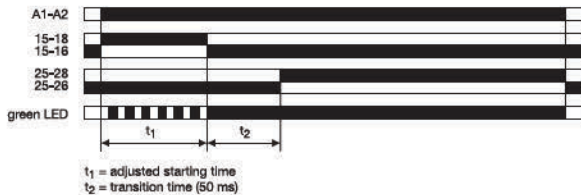
### (T) ON/OFF-function



### (Y) Star-delta Change-over



### (Y1) Star-delta Change-over with Impulse Function



## Specifications - 700-FS Relays<sup>(1)</sup>

Attribute	Value
Setting Accuracy	±6% of full scale
Repeatability	±0.2% of the setting values
Tolerance	Voltage: ±0.004%/V Temperature: ±0.035%/°C

## Supply





Attribute	Value
Supply Voltages	24...48V DC and 24...240V AC, 50/60 Hz (multi voltage)
Voltage Tolerance	-15...+10% (-25...+10% DC-EX)
Power Consumption	Max 16 VA
Time Energized	100%
Reset Time	<80 ms
Cable Length (Supply Voltage Control)	50 m (800 ft) - 100pF/m

## Pulse Control (B1)

Attribute	Value
Pulse Duration	≥20 ms
Input Voltage	Supply voltage range
Input Current	1 mA
Cable Length	50 m (800 ft) - 100 pF/m

## Outputs

Contact Type	Relay as changeover switch
Dielectric Coil to Contact	4000 V
Switching Capacity	Voltage: 500V AC
	According to IEC 947-5-1:
	3 A/230V AC (inductive load, AC 15)
	2 A/24V DC (inductive load, DC 13)
	According to UL 508:
Life	1.5 A/250V AC (B300)
	3 A/120V AC (B300)
	Mechanical: 30 million operations
State Indicator	Electrical: 100,000 operations at AC12, 230V, 4 A
	1 LED, combination signal

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