

Bulletin 700-FE



DIN Rail Timing Relays
Including Product Line Enhancements

Highlights

- Only 17 mm wide for space-sensitive applications
- DIN Rail mounted without cost of socket
- Single function or multi function units
- Time range from 0.05 seconds to 10 hours
- Built in LED indicator for status monitoring
- 5 A contact rating
- Coil surge protection

Enhancements

For 1 N.O. Contact Versions

- Increased timing range
 - Expanded from 0.75 s...1 hr to 0.05 s...10 hr
 - Increased timing range will help meet a wider range of application requirements
- Expanded number of settings for timing range
 - Number of time settings increased from 4 to 6
 - Allows for easier adjustment when fine-tuning the time for each specific application
- Easier supply voltage connection
 - Available terminals for supply voltage reduced from 3 to 2
 - Remaining terminals support all available supply voltages to help decrease wiring error and time



Overview

At 17 mm, the Bulletin 700-FE DIN Rail Timing Relays are the smallest Allen-Bradley® DIN Rail products with a timing range of 0.05 seconds to 10.0 hours. There are seven single function timing versions available (on-delay, off delay, one shot, fleeting off delay, repeat cycle, pulse converter) for customers who require a specific function at the lowest possible price. However, if a user requires many different timing functions and would like to reduce their inventory and simplify their design requirements, a slightly higher cost multi-function timer is available which has the four most popular functions in one part number.

The functionality of the Bulletin 700-FE DIN Rail Timing Relays has been improved (1 N.O. contact versions only). Please see reverse for complete details.

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Product Comparison

Description	Current 700-FE (1 N.O. Contact Output)	Updated 700-FE (1 N.O. Contact Output)
Contact Output	1 N.O. (SPST)	1 N.O. (SPST)
Time Range	0.75 - 1 h	0.05 - 10 h
Time Settings	4	6
Time Ranges MULTI-Function (On Delay / Off Delay / One Shot / Flasher)	0.5...10 s 3...60 s 0.5...10 min 3...60 min	0.05...1 s 0.5...10 s 0.05...1 min 0.5...10 min 0.05...1 h 0.5...10 h
Time Ranges MONO-Function Off-Delay (Only)	0.5...10 s 3...60 s 0.5...10 min 3...60 min	
Time Ranges MONO-Function (On Delay / One Shot / Flasher + Off Delay NEW FEx1T)		0.05...1 s 0.5...10 s 0.05...1 min 0.5...10 min 0.05...1 h 0.5...10 h
Input Voltage	24V AC/DC 110...240 VAC	24V AC/DC 110...240 VAC
Terminals Used (Voltage)	3	2
Terminals Voltage Specific	A3-A2: 24V AC/DC A1-A2: 110...240 VAC	A1-A2: 24V AC/DC; A1-A2: 110...240 VAC
Setting Accuracy	± 5% (tmax)	± 5% (tmax)
Repeat Accuracy	0.01	0.01
Voltage Tolerance	-15%/+20%(DC) -15%/+10% AC	-15%/+20%(DC) -15%/+10% AC
Reset Time	250 ms	250 ms
Power Consumption	0.5 W at 24 VDC, 9 VA at 240 VAC	0.5 W at 24 VDC, 9 VA at 240 VAC
Duty Cycle	1	1
Pulse Control (B1) Off-Delay	Current 1 mA, duration ≥250 ms	Current 1 mA duration ≥250 ms
Switching Capacity	U = 250 VAC, Ith = 5 A	U = 250 VAC, Ith = 5 A
LED Functionality	LED: Green = Output energized No Color = Not energized	Bi-Color LED: Green = Supply power Red = Output energized
Allen-Bradley Part Numbers	700-FEA1SU22 700-FEB1SU22 700-FED1SU22 700-FEF1SU22 700-FEM1RU22	700-FEA1TU22 serA 700-FEB1TU22 serA 700-FED1TU22 serA 700-FEF1TU22 serA 700-FEM1TU22 serA
Terminal Layout 700-FEM1R / 700-FEB1S	A1 A3 15 18 A2 B1	A1 B1 15 Empty 18 A2
Terminal Layout 700-FE 1S	A1 A3 15 18 A2 Empty	A1 Empty 15 Empty 18 A2

Function Table

Function	Description
A	On-Delay
B	Off-Delay
D	One-Shot (Interval)
F	Flasher (Repeat Cycle)
M	Muti-Function

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