RZ7-FS **Electronic Timing** Relays

Precision DIN-rail mounted timing relays for any industrial application







The multifunction RZ7-FSM Electronic Timing Relay provides eight different timing functions and ten different timing ranges.

Sprecher + Schuh's RZ7-FS precision electronic timing relays offer 19 different output functions applicable to all types of industrial control. In addition to standard ON-Delay and OFF-Delay relays, the series also includes many specials such as an OFF-Delay that operates without supply voltage. Various timing ranges from 0.05 seconds to 60 hours are available, with many relays offering multi-time setting capability in the same device.

Solid state accuracy and reliability

Except for their hard silver contacts, all RZ7-FS timing relays are built with solid state electronics and controlled by a microprocessor. They are accurate to within 0.2 percent. Their ruggedness and high level of accuracy is due to the thorough testing of function, timing characteristics and surge voltage strength performed on each device prior to shipment.

In addition, RZ7-FS relays function reliably from 15% under rated operating voltage to 10% over rated voltage (AC). Voltage tolerance is even greater in DC applications.

Eliminates additional relays

The standard RZ7-FS is supplied with one single pole double throw (SPDT) contact within a compact case only 22.5mm wide. If more contacts are required, several relays are available that provide two separate, electrically isolated SPDT contacts within the same narrow footprint. Output two is selectable as an instantaneous contact, which can eliminate the need for auxiliary relays in complex installations. These two pole relays can also be used with an external potentiometer for remote time setting.



Multiple functions and timing ranges in one relay

The RZ7-FSM combines eight separate timing functions (plus ON and OFF functions) into one device. In addition, ten timing ranges are individually selectable from 0.05 seconds to 60 hours. These special relays reduce inventories and are ideal for maintaining remote installations where stocking several different timing relays would not be practical.

Many safety and convenience features

- Every RZ7 accepts a broad range of AC and DC supply voltages without special ordering.
- Each relay is equipped with an LED that indicates four output status conditions.
- Finger and back of hand protection to IP40.
- Terminals are captive and supplied in the open position.
- All RZ7's can be surface mounted, rail mounted, or mounted directly on our family of CA7/CS7 or CA8/CS8 devices.
- RZ7 relays can be mounted in any
- Terminals, setting knob and LED's are all accessible from the front of the unit.
- RZ7 Timing Relays are very compact, measuring approximately 1" x 3" x 4".
- Hazardous location timing relays also available.



Quick Selection Guide

Single Function Timing Relays						
RZ7-FS	A	3	Α	U23		
Туре	Function	Contacts	Time Ranges	Supply Voltages		
	A On-Delay B Off-Delay C On and Off-Delay D One Shot / Watchdog E Fleeting Off-Delay F Symmetric flasher starting with a pulse G Symmetric flasher starting with a pause I On-Delay pulse generator J On-Delay (pulse controlled) K One Shot / Watch Dog (pulse controlled) L Impulse Converter	All functions: 3 One single pole double throw contact Functions A & B only: 4 Two single pole double throw contacts ② (Available with Time Range "U" only. Not available with "U18" supply voltage)	A 0.051 second B 0.153 seconds C 0.510 seconds D 1.530 seconds E 0.051 minute F 0.153 minutes G 0.510 minutes H 1.530 minutes I 0.051 hour J 0.153 hours K 0.510 hours L 3.060 hours U 0.05s60 hours	Standard: U23 2448VDC 24240V 50/60Hz Special Order: U18* 24240VAC or DC A40 346440V 50/60Hz 712 12VDC * Not available with Time Range "U"		
RZ7-FS	Q	3	Q	U18		
Туре	Function	Contacts	Time Ranges	Supply Voltages		
	Q Off-Delay Without Supply Voltage	3 One single pole double throw contact 4 Two single pole double throw contacts ❷	Q 0.15s10 minutes 0	U18 24240VAC or DC		

Multi-Function Timing Relay							
RZ7-FS	M	3	U	U23			
Туре	Function	Contacts	Time Ranges	Supply Voltages			
	M Multi-Function Eight single functions plus ON & OFF function (for installation/maintenance) On-Delay Off-Delay on and Off-Delay one Shot / Watchdog Fleeting Off-Delay Symmetric flasher starting with a pulse	3 One single pole double throw contact 4 Two single pole double throw contacts	U 0.0560 hours O	Standard: U23 2448VDC 24240V 50/60Hz Special Order: U18 24240VAC or DC A40 346440V 50/60Hz Z12 12VDC			

	Special Function Timing Relays					
RZ7-FS	Н	3	U	U23		
Туре	Function	Contacts	Time Ranges	Supply Voltages		
	H Repeat Cycle Timer (Flasher) Includes four separate functions - Supply voltage controlled, output starts with a pause - Supply voltage controlled, output starts with a pulse - Pulse controlled, output starts with a pause - Pulse controlled, output starts with a pulse	All functions: 3 One single pole double throw contact	For equal timing of pulse and pause U 0.05s60 hours For separate timing of pulse and pause V 2 x 0.05s60 hours	Standard: U23 2448VDC 24240V 50/60Hz Special Order: A40 346440V 50/60Hz Z12 12VDC		
RZ7-FS	Y	2	C	U23		
Туре	Function Y Wye Delta Timing Relay	Contacts 2 Two normally open contacts	Time Ranges C	Supply Voltages Standard: U23 2448VDC 24240V 50/60Hz Special Order: A40 346440V 50/60Hz ❸		

- Multi-time setting range. See Technical Section for specific time settings.
- Timers with supply voltage code A40 (346...440VAC) are not UL listed. RZ7-FSx4 models are not available with supply voltage code A40.

Second output selectable as timed or instantaneous.

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RZ7-FS Timing Relays – Single Function, One and Two Pole

Functional Description	Functional Diagram	Terminal Arrangement	Туре	Catalog Number	Price
	u	L/+A1	One SPDT contact Single timing range	RZ7-FSA3*U23	80.74
ON-Delay Timing Relay (A) When supply voltage is applied, output contact(s) change state after time	LED	N/- A2 18 16	• One SPDT contact • Multi-timing range (from 0.05s to 60h) 4	RZ7-FSA3UU23	80.74
delay t.	Output 1 f f f f f f f f	N/- A2 Z1 Z2 18 16 28 26 24 22 2	• Two SPDT contacts	RZ7-FSA4UU23	110.38
OFF-Delay Timing Relay (B)	U A1/A2 S A1/B1	L/+ S S A1 B1 15	One SPDT contact Single timing range	RZ7-FSB3*U23	80.74
When control contact "S" closes, output contact(s) change state immediately. When control contact S opens, output contact(s) change state after time delay t. Constant	Output 15 18 LED 15 18	N/- A2 18 16	• One SPDT contact • Multi-timing range (from 0.05s to 60h) 4	RZ7-FSB3UU23	80.74
change state after time delay <i>t</i> . Constant supply voltage required on terminals A1/A2. Note: Control pulse duration minimum 50ms (AC) - 30ms (DC).	U A1/A2 S A1/B1 Output 1 1 15 18 Output 2 1 25 28 Output 2 2 25 28 LED A1/B1	L/4 S 21 A1 B1 15 25 A2 Z1 Z2 18 16 28 26 N/-	Two SPDT contacts Multi-timing range (from 0.05s to 60h)	RZ7-FSB4UU23	110.38
Off-Delay Without Supply Voltage (Q) When supply voltage is applied, output	Output	N/- A2 18 16	One SPDT contact Multi-timing range (from 0.15s to 10min)	RZ7-FSQ3QU18	185.70
contact(s) change state immediately. When supply voltage is removed, output contact(s) change state after time delay <i>t</i> .	U tp A1/B1 Output 1 t 15 18 Output 2 t 25 28 LED 25	N/- A2 18 16 28 26	Two SPDT contacts Multi-timing range (from 0.15s to 10min)	RZ7-FSQ4QU18	171.70

Supply Voltage

Single Function RZ7-FS...U23 timers (except RZ7-FSQ) accept supply voltages of 24...48VDC and 24...240VAC (RZ7-FSQ) accepts 24...240VAC or DC). Other voltages are available by special order. See Quick Selection Guide on page G24 for details or contact your Sprecher + Schuh representative for information.

- For timing control, a voltage other than the supply voltage can also be used.
- Output two is selectable as an instantaneous contact by sliding a switch on the faceplate.
- $oldsymbol{\Theta}$ Bridge or potentiometer 10k Ω , min. 0.25W (low voltage) for external time setting.
- Timing range is screwdriver selectable from the faceplate. Timing range selections include those found in the Timing Range Code chart.
- Timing range is screwdriver selectable from the faceplate. Exact timing ranges can be found in the Technical Section.
- Oue to shock during shipment, the state of the contacts should be verified before initial use.

Timing Range Codes

Replace (*) with Timing Range Code

Timing Range	Code
0.051 sec	Α
0.153 sec	В
0.510 sec	C
1.530 sec	D
0.051 min	E
0.153 min	F
0.510 min	G
1.530 min	Н
0.051 hour	I
0.153 hour	J
0.510 hour	K
3.060 hour	L



RZ7-FS two pole timing relay





RZ7-FS Timing Relays – Single Function, One Pole

Functional Description	Functional Diagram	Terminal Arrangement	Туре	Catalog Number	Price
ON and OFF-Delay Timing Relay (C) When control contact "S" closes, output contact changes state after time delay t. When control contact S opens, output contact changes state again after time delay t. Constant supply voltage required on terminals A1/A2. Note: Closure duration of S must be greater than t.	U A1/A2 S A1/B1 Output 15 16 LED 15 16	L/+ S S S S S S S S S S S S S S S S S S S	One SPDT contact Single timing range	RZ7-FSC3*U23	89.88
One Shot / Watchdog Relay (D) When supply voltage is applied, the output contact changes state for time period t.	U A1/A2 Output 15 18 LED 15 18	L/+ A1 15 N/- A2 18 16	One SPDT contact Single timing range	RZ7-FSD3*U23	89.88
Fleeting OFF-Delay Timing Relay (E) When control contact "S" is pulsed, output contact changes state for time period t. Note: Control pulse duration minimum 50ms (AC) - 30ms (DC).	U A1/A2 S A1/B1 Output	N/- A2 18 16	One SPDT contact Single timing range	RZ7-FSE3*U23	89.88
Symmetric Flasher Starting With A Pulse (F) When supply voltage is applied, output contact changes state immediately and then repeatedly changes after every time period t, continuing until supply voltage is removed.	Output	N/- A1 15	One SPDT contact Single timing range	RZ7-FSF3*U23	89.88

Supply Voltage

Single Function RZ7-FS...U23 timers accept supply voltages of 24...48VDC and 24...240VAC. Other voltages are available by special order. See Quick Selection Guide on page G24 for details or contact your Sprecher + Schuh representative for information.

Timing Range Codes

Replace (★) with Timing Range Code

Timing Range	Code
0.051 sec	Α
0.153 sec	В
0.510 sec	C
1.530 sec	D
0.051 min	E
0.153 min	F
0.510 min	G
1.530 min	Н
0.051 hour	I
0.153 hour	J
0.510 hour	K
3.060 hour	L



RZ7-FS one pole timing relay

[•] For timing control, a voltage other than the supply voltage can also be used.



RZ7-FS Timing Relays – Single Function, One Pole

Functional Description	Functional Diagram	Terminal Arrangement	Туре	Catalog Number	Price
Symmetric Flasher Starting With A Pause (G) When supply voltage is applied, output contact changes state after time period <i>t</i> and then repeatedly changes again after every period <i>t</i> , continuing until supply voltage is removed.	U A1/A2 Output 1518 LED 1516	N/- A2 18 16	One SPDT contact Single timing range	RZ7-FSG3*U23	89.88
On-Delay Pulse Generator (I) When supply voltage is applied, output contact changes state after time period <i>t</i> . Output contact changes state again after 0.5 seconds.	U	N/- A2 18 16	One SPDT contact Single timing range	RZ7-FS13*U23	89.88
On-Delay (pulse controlled) (J) When control contact "S" is pulsed, the output contact changes state after time period t.	Output	A1 B1 15	One SPDT contact Single timing range	RZ7-FSJ3*U23	89.88
One Shot / Watchdog (pulse controlled) (K) When control contact "S" closes, the output contact changes state immediately. After the last pulse of contact S, the output contact changes state after time delay t.	0 A1/A2 S A1/B1 Output 1518 LED 188	L/+ S S A1 B1 15 N/- A2 18 16	One SPDT contact Single timing range	RZ7-FSK3*U23	89.88
Impulse Converter (L) When a pulse is applied to control contact "S", the output contact changes state immediately for time period t. Pulses received during timing period t have no further effect. Note: The period t is not dependent on the length of the control pulse. Control pulse duration minimum 50ms (AC) - 30ms (DC).	Output	L/+ S S A1 B1 15 N/- A2 18 16	One SPDT contact Single timing range	RZ7-FSL3*U23	89.88

Supply Voltage

Single Function RZ7-FS..U23 timers accept supply voltages of 24...48VDC and 24...240VAC. Other voltages are available by special order. See Quick Selection Guide on page G24 for details or contact your Sprecher + Schuh representative for information.

Timing Range Codes

Replace (★) with Timing Range Code

Timing Range	Code
0.051 sec	Α
0.153 sec	В
0.510 sec	C
1.530 sec	D
0.051 min	E
0.153 min	F
0.510 min	G
1.530 min	Н
0.051 hour	I
0.153 hour	J
0.510 hour	K
3.060 hour	L



RZ7-FS one pole timing relay

[•] For timing control, a voltage other than the supply voltage can also be used.



R77-FS Timing Relays - Multi-Function One and Two Pole

RZ7-FSM Iulti-Function Relay	Functional Description		Туре	Catalog Number	Price
	Multi-Function Relay (M) The RZ7-FSM multifunction relay combines eight timing function plus ON and OFF functions (for installation and maintenance). Ear timing function and timing range is selectable from the face of t relay with a screwdriver actuated knob. The RZ7-FSM offers the following timing functions: On-Delay On and Off-Delay On shot / Watchdog	ch he	One SPDT contact Multifunction, multi-timing range relay (from 0.05s to 60h)	RZ7-FSM3UU23	140.3
FSM3U	Fleeting Off-Delay On-Delay Pulse Generator ON Function (see below) OFF Function (see below) The two pole RZ7-FSM4 offers two separate, electrically isolate single pole double throw (SPDT) contacts which allow applicatio complex installations without additional auxiliary relays. This ser may also be operated remotely via an external potentiometer.	d ns in	• Two SPDT contacts • Multifunction, multi-timing range relay (from 0.05s to 60h)	RZ7-FSM4UU23	161.1
On-Delay (A) U	- A1/A2	S Output 1 Output 2 Output 2	A1/A2 A1/B1 15 18 15 18 25 28	A2 Z1 Z2 18 16 :	21 25 25 28 28 26 24 22
On and Off-Delay (C) A1/A2 S Output 1 I Output 2 I Output 2	L/+ S 21 A1 B1 15 25	A1/A2 Output 1 Output 2 Output 2	ot / Watchdog (D)	N/ ₂ A2 Z1 Z2 18 16	21 25 25 28 28 26 24 22
Fleeting Off-Delay (E) A1/A2 S Output 1 t Output 2 t Output 2 t LED	A1 B1 15 25	A1/A2 Output 1 Output 2 Output 2		L/+ A1 15	21 25
On-Delay Pulse Generator A1/A2	15 25	A1/A2 S Output 1 Output 2 Output 2		A1 B1 15 A2 Z1 Z2 18 16	21 25
ON-Function A1/A2 Output 1 Output 2	A1/A2	Functio	n display LED (Green) Output in rest position, no tir Output in rest position, time	•	9

Supply Voltage

The RZ7-FSM timer accepts supply voltages of 24...48VDC and 24...240VAC. Other supply voltages are available by special order. See Quick Selection Guide on page G24 for details or contact your Sprecher + Schuh representative for information.

• For timing control, a voltage other than the supply voltage can also be used.

Output in operation position, time running

- 2 Output two is selectable as an instantaneous contact by sliding a switch on the faceplate.
- $oldsymbol{\Theta}$ Bridge or potentiometer $10k\Omega$, min. 0.25W (low voltage) for external time setting.
- Function selection and timing range is screwdriver selectable from the faceplate. Exact timing range selections can be found in Technical Information.



RZ7-FS Timing Relays – Special Function, One Pole

Functional Description	Functional Diagram	Terminal Arrangement	Туре	Catalog Number	Price
Wye-Delta Timing Relay (Y) When supply voltage is applied, output contact Y closes for time period t . After time period t , plus a fixed time period t_v , (50-65ms) output contact Δ closes.	U A1/A2 Y 17/18 Δ 17/28 LED	N A2 18 28 Y A	Two single pole N.O. contacts Single timing range	RZ7-FSY2*U23	111.08
	U	N/- S B1 15 N/- A2 18 16			
Repeat Cycle Timer (H) - (Flasher) The Repeat Cycle Timer offers four different operating characteristics within the same relay. Depending on how the unit is wired, cycles are initiated either by supply voltage being applied or by a pulse from control contact "S". Regardless of the activation method, each cycle may begin with a pause	S	N/- S 15 15 15 N/- A2 18 16	 One SPDT contact Multi-timing range (from 0.05s to 60h) Provides (1) range setting for t₁ and t₂ 	RZ7-FSH3UU23	107.31
or a pulse. The RZ7-FSH3 U relay sets the pulse and pause durations within one timing range setting. The RZ7-FSH3 V allows individual time settings of pulse and pause within two timing range settings. Both relays offer multiple time settings between 0.05s and 60h, selectable in ten increments.	S A1/A2 S A1/B1 Output	L/+ S 15 15 15 17 18 16 16 16 16 16 16 16	Provides (2) range settings for t ₁ and t ₂	RZ7-FSH3VU23	107.31
	S A1/A2 S A1/B1 Output 12	L/+ S 15 15 15 16 18 16			

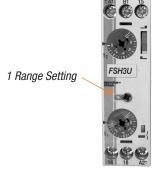
Supply Voltage

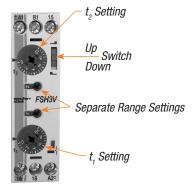
These timers accept supply voltages of 24...48VDC and 24...240VAC. A supply voltage of 346...440VAC is also available by special order. See Quick Selection Guide on page G24 for details or contact your Sprecher + Schuh representative for information.

Timing Range Codes

Replace (★) with Timing Range Code

Timing Range	Code
0.510 sec	C
1.530 sec	D
0.051 min	E
0.153 min	F
0.510 min	G





RZ7-FSH3U

RZ7-FSH3V

- For timing control, a voltage other than the supply voltage can also be used.
- Timing range is screwdriver selectable from the faceplate. Exact timing range selections can be found in Technical Information.



Series RZ7-FS...-EX

RZ7 Hazardous Location Electronic Timing Relays

Sprecher+Schuh's RZ7 hazardous location relay timers have been designed to meet the stringent requirements of hazardous location applications while maintaining the functionality of the existing RZ7-FS family of timing relays. The RZ7-FSM4...-EX is a multi-function timing relay with 8 single-functions, SPDT or DPDT contact output, and adjustable timing ranges. The -EX models are ideal for control panels installed in hazardous location areas such as in the oil, gas and petrochem industries.

Z1 Z2 FSK3-EX 0.05..15 FSM4-EX 1 15 RZ7-FSK3CU23-EX

RZ7-FSM4UU23-EX

Multiple Approvals



- cULus Industrial Control Equipment for Hazardous Location Listed 87SL
- UL Class 1, Div. 2, Groups A,B,C,D UL Class 1, Zn 2, Group IIC
- Temperature Code T4A, 2A 32VDC max.

RZ7-FS Hazardous Location Timing Relay - Single Function, One Pole 2

Functional Description	Functional Diagram	Terminal Arrangement	Туре	Catalog Number	Price
One Shot / Watchdog (pulse controlled) (K) When control contact "S" closes, the output contact changes state immediately. After the last pulse of contact S, the output contact changes state after time delay t.	U	L/+ S S A1 B1 15 N/- A2 18 16	One SPDT contact Single timing range 0.051 second 0.510 second	RZ7-FSK3AU23-EX RZ7-FSK3CU23-EX	106.13

Supply Voltage

Single Function RZ7-FSK3...-EX timers accept supply voltages of 24...48VDC and 24...240VAC.

- For timing control, a voltage other than the supply voltage can also be used.
- Technical data and dimensional information for the RZ7-FS...-EX models are the same as the standard RZ7-FS models.

RZ7-FS Hazardous Location Timing Relays - Multi-Function, One and Two Pole @

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RZ7-FSM Multi-Function Relay	Functional Description		Туре	Catalog Number	Price
	Multi-Function Relay (M) The RZ7-FSM multifunction relay combines eight timing functions plus and OFF functions (for installation and maintenance). Each timing function and timing range is selectable from the face of the relay with a screwd actuated knob. The RZ7-FSM offers the following timing functions: On-Delay On and Off-Delay On Shot / Watchdog Fleeting Off-Delay On-Delay Pulse Generator ON Function (see below) OFF Function (see below) The two pole RZ7-FSM4 offers two separate, electrically isolated single double throw (SPDT) contacts which allow applications in complex inst lations without additional auxiliary relays. This series may also be operaremotely via an external potentiometer.		• One SPDT contact • Multifunction, multi-timing range relay (from 0.05s to 60h) •	RZ7-FSM3UU23-EX	156.0
			Two SPDT contacts Multifunction, multi-timing range relay (from 0.05s to 60h)	RZ7-FSM4UU23-EX	187.0
On-Delay (A)	— A1/A2 L/+ A1 15 25 15 18 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4	Off-Delay (B)	A1/A2	A1 B1 15 25	
Output 1 t Output 2 t Output 2 LED	N/- A2 Z1 Z2 18 16 28 26	Output 1 Output 2 Output 2	A1/B1 t 15 16 t 25 28 25 28 N/-	A2 Z1 Z2 18 16 28 26 24 22 2	
On and Off-Delay (C) A1/A2 S Output 1 t Output 2 t Output 2 LED	A1 B1 15 25 A2 Z1 Z2 18 16 28 26 N/- A2 Z1 Z2 2 18 16 28 26	One Shot / W A1/A2 Output 1 Output 2 Output 2 LED LED	U+	A2 Z1 Z2 18 16 28 26 24 22 2	
Fleeting Off-Delay (E) A1/A2 S Output 1 t Output 2 t Output 2 t LED	A1 B1 15 25 A2 Z1 Z2 18 16 28 26 Z4 22 A2 Z1 Z2 18 16 28 26 Z4 22 A2 Z1 Z2 18 16 28 26	A1/A2 Output 1	<u> </u>	A2 Z1 Z2 18 16 28 26 24 22 9	
On-Delay Pulse Generate A1/A2 Output 1 Output 2 LED LED	Or (I)	Output 1t Output 2t		A1 B1 15 25 A2 Z1 Z2 18 16 28 26	
ON-Function	OFF-Function	Function dis	play LED (Green)	,	
A1/A2 J Output 1 J Output 2 J	A1/A2		Output in rest position, no timing Output in rest position, time running Output in operation position, no tim Output in operation position, time run	ing	

Supply Voltage

The RZ7-FSM timer accepts supply voltages of 24...48VDC and 24...240VAC.

- For timing control, a voltage other than the supply voltage can also be used.
- Output two is selectable as an instantaneous contact by sliding a switch on the faceplate for RZ7-FSM4 model.
- $oldsymbol{\Theta}$ Bridge or potentiometer $10k\Omega$, min. 0.25W (low voltage) for external time setting for RZ7-FSM4 model.
- Function selection and timing range is screwdriver selectable from the faceplate. Exact timing range selections can be found in Technical Information.
- Technical data and dimensional information for the RZ7-FS...-EX models are the same as the standard RZ7-FS models.

RZ7-FE **Electronic Timing** Relays

The economical choice for most industrial timing applications









The RZ7-FEM multifunction timing relay combines all functions in one device.

Sprecher + Schuh's RZ7-FE electronic timing relays offer seven popular output functions in an economical package. This series is especially designed for applications where a high quality, yet basic timing relay is required. Timing formats include ON-delay, OFF-delay, Wye-Delta and four other choices. All models are multi-time relays, meaning that various time ranges (from 0.05 seconds to 10 hours) can be selected from the face of the relay.

Solid state accuracy and reliability

Except for their hard silver contacts, all RZ7-FE timing relays are built with solid state surface mounted electronics and are accurate to within one percent. Their ruggedness and accuracy is due to the thorough testing of function, timing characteristics and surge voltage strength performed on each device prior to shipment.

In addition, RZ7-FE relays function reliably from 15% under rated operating voltage to 10% over rated operating voltage (AC). Voltage tolerance is even greater in DC applications.

Universal voltage capability

All RZ7-FE timing relays operate with multiple supply voltages ranging from 24VAC or DC to 240VAC. Universal voltage capability means smaller inventories and more flexibility.

Choose from two different output contacts

The RZ7-FE series has a choice between one normally open (NO) contact or one single pole double throw (SPDT) contact. The SPDT version can be used either normally open or normally closed. This version has several technical advantages such as shorter impulse duration requirements and a faster recovery time.



Multiple functions in one relav

The RZ7-FEM relay combines four of the most popular timing functions into one device. Six timing ranges are included that are individually selectable from 0.05 seconds to 10 hours. This multifunction relay reduces inventories and is ideal for maintaining remote installations where stocking several different timing relays would not be practical.

Many safety and convenience features

- Each relay is equipped with an LED that indicates output status condi-
- Finger and back of hand protection
- Terminals are captive and supplied in the open position.
- All RZ7's can be surface mounted, rail mounted, or mounted directly on our family of CA7/CS7 devices.
- RZ7 relays can be mounted in any
- Terminals, setting knob and LED's are all accessible from the front of the
- RZ7-FE Timing Relays are very compact, measuring approximately 1" x 3" x 3".



Series RZ7-FE

Quick Selection Guide

	Single Function Timing Relays							
RZ7-FE A		1	T	U22				
Туре	Function	Contacts	Time Ranges	Supply Voltages				
A On-Delay B Off-Delay D One Shot / Watchdog	B Off-Delay D One Shot / Watchdog	Functions A, B, D & F 1 One normally open contact	T 0.05s10 hours ①	U22 24VAC or DC A1/A2 110240V 50/60Hz				
	E Fleeting Off-Delay ② F Symmetric flasher starting with a pulse L Impulse Converter ②	All Functions: 3 One single pole double contact	T 0.05s10 hours ①	U23 2448VDC A1/A2 24240V 50/60Hz				

Multi-Function Timing Relays							
RZ7-FE M 1 T					U22		
Туре	Function	Contacts	Time Ranges		Supply Voltages	;	
	M Multi-function Four single functions - On-delay - Off-delay - One shot - Symmetric flasher starting with a pulse	One normally open contact	T 0.05s10 hours 0	U22	24VAC or DC 110240V 50/60Hz	A1/A2	
		3 One single pole double contact	T 0.05s10 hours ●	U23	2448VDC 24240V 50/60Hz	A1/A2	

Special Function Timing Relays						
RZ7-FE Y 2 Q U23						
Туре	Function	Contacts	Time Ranges	Supply Voltages		
	Y Wye-Delta Timing Relay	2 Two normally open contacts (one side common)	Q 0.15s10 minutes ①	U23 2448VDC A1/A2 24240V 50/60Hz A1/A2		

Illustration for reference only. See selection tables for specific catalog numbers.

[•] Multi-time setting range. See appropriate catalog page for specific time settings.

Not available in RZ7-FEx1 model.

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RZ7-FE Timing Relays – Single Function, One Pole

Functional Description	Functional Diagram	Terminal Arrangement	Туре	Catalog Number	Price
ON-Delay Timing Relay (A) When supply voltage is applied, output	Output t 18	~ — — — — — — — — — — — — — — — — — — —	One NO contact Multi-timing range (from 0.05s to 10h) Supply voltage selected via wiring terminals A1, A2 Bicolored LED indicator	RZ7-FEA1TU22	61.63
contact(s) change state after time delay <i>t</i> .	U A1/A2 Output t 15 18 LED LED	~ 15 15 16 16 16 16 16 16 16 16 16 16 16 16 16	One SPDT contact Multi-timing range (from 0.05s to 10h) "Universal" terminals accept all appropriate supply voltages Bicolored LED indicator	RZ7-FEA3TU23	66.67
OFF-Delay Timing Relay (B) When control contact B1 closes, the output contact changes state immediately. When control contact B1 opens, the output contact changes state after time delay £. Constant supply voltage required on terminals A1/A2	S A1/B1 S 15 Output t 15	A1 B1 S 15 A2 18	One NO contact Multi-timing range (from 0.05s to 10h) ② Supply voltage selected via wiring terminals A1, A2 Bicolored LED indicator	RZ7-FEB1TU22	66.74
or A3/A2. Note: Control pulse duration minimum 250ms for RZ7-FEB1SU22; 50ms (AC) and 30ms (DC) for RZ7-FEB3TU23.	Output t 15 16 LED	~ A1 B1 S 15 A2 18 16	One SPDT contact Multi-timing range (from 0.05s to 10h) "Universal" terminals accept all appropriate supply voltages Bicolored LED indicator	RZ7-FEB3TU23	71.57
One Shot Relay / Watchdog (D) When supply voltage is applied, the output	Output t 18 LED	~ A1 15 15 A2 18	One NO contact Multi-timing range (from 0.05s to 10h) ② Supply voltage selected via wiring terminals A1, A2 Bicolored LED indicator	RZ7-FED1TU22	61.63
contact changes state for time period t.	Output t 15 18 16 LED	~ A1 15 15 16 16 16	One SPDT contact Multi-timing range (from 0.05s to 10h) "Universal" terminals accept all appropriate supply voltages Bicolored LED indicator	RZ7-FED3TU23	66.67

Supply Voltage

The last three digits in the catalog number represent the supply voltage range the relay will accept:

U22	24V AC or DC	(A1/A2)
	110240V 50/60Hz	(A1/A2)
U23	2448VDC and 24240V 50/60Hz	(A1/A2)

Bicolored LED

1 SPDT or 1 N.O. Contact Timers

LED U = Green: Supply voltage available
LED Relay = Red: Output is energized

OFF: No color

Timing Range Codes

RZ7-FE
0.051 sec
0.510 sec
0.051 min
0.510 min
0.051 hour
0.510 hour



RZ7-FE timing relay

- For timing control, a voltage other than the supply voltage can also be used.
- Timing range is screwdriver selectable from the faceplate.



RZ7-FE Timing Relays – Single Function, One Pole

Functional Description	Functional Diagram	Terminal Arrangement	Туре	Catalog Number	Price
Symmetric Flasher Starting With A Pulse (F) When supply voltage is applied, the output	U A1/A2 Output t t t t 18 LED	~	One NO contact Multi-timing range (from 0.05s to 10h) Supply voltage selected via wiring terminals A1, A2 Bicolored LED indicator	RZ7-FEF1TU22	61.63
contact changes state immediately and then repeatedly changes after every time period <i>t</i> , continuing until supply voltage is removed.	Output t t t 15 18	~ A1 15 15 A2 16 16	One SPDT contact Multi-timing range (from 0.05s to 10h) "Universal" terminals accept all appropriate supply voltages Bicolored LED indicator	RZ7-FEF3TU23	66.67
Fleeting OFF-Delay Timing Relay (E) When control contact B1 is pulsed, the output contact changes state for time period t. Note: Control pulse duration minimum 50ms (AC) - 30ms (DC).	A1/A2 B1 15 18 15 16	~	One SPDT contact Multi-timing range (from 0.05s to 10h) "Universal" terminals accept all appropriate supply voltages Bicolored LED indicator	RZ7-FEE3TU23	71.57
Impulse Converter (L) When a pulse is applied to control contact B1, the output contact changes state immediately for time period t. Pulses received during timing period t have no further effect. Note: The period t is not dependent on the length of the control pulse. Control pulse duration minimum 50ms (AC) - 30ms (DC).	U	~ A1 B1 15 A2 18 16	One SPDT contact Multi-timing range (from 0.05s to 10h) "Universal" terminals accept all appropriate supply voltages Bicolored LED indicator	RZ7-FEL3TU23	71.57

RZ7-FE Timing Relays - Special Function, One Pole

Functional Description	Functional Diagram	Terminal Arrangement	Туре	Catalog Number	Price
Wye-Delta Timing Relay (Y) When supply voltage is applied, output contact Y closes for time period t . After time period t , plus a fixed time period t_v , (50-65ms) output contact Δ closes.	A1/A2 Y t 17/18 A 17/28 LED 17/28	~ A1 17 A2 18 28 A2 Y \(\text{A2} \)	Two single pole N.O. contacts (one side common) Multi-timing range (from 0.15s to 10m) ❷ "Universal" terminals accept all appropriate supply voltages LED indicator	RZ7-FEY2QU23	88.99

Supply Voltage

The last three digits in the catalog number represent the supply voltage range the relay will accept:

U22	24V AC or DC	(A1/A2)
	110240V 50/60Hz	(A1/A2)
U23	2448VDC and 24240V 50/60Hz	(A1/A2)

Bicolored LED

1 SPDT or 1 N.O. Contact Timers



□ OFF: No color

Single Color LED

2 N.O. with Common

ON = Green: Output is energized

OFF = No Color

• For timing control, a voltage other than the supply voltage can also be used.

2 Timing range is screwdriver selectable from the faceplate.

Timing Range Codes

RZ7-FE with NO or SPDT contact	RZ7-FEY with two NO contacts
0.051 sec	0.153 sec
0.510 sec	0.510 sec
0.051 min	0.051 min
0.510 min	0.510 min
0.051 hour	
0.510 hour	

sprecher+ schuh

RZ7-FE Timing Relays - Multi-Function, One Pole

RZ7-FEM Multi-function Relay	Functional Description	Туре	Catalog Number	Price
A1 B1 15	Multi-Function Relay (M) The RZ7-FEM multifunction relay combines <i>four</i> timing functions in one device. Each timing function and timing range is selectable from the face of the relay with a screwdriver actuated knob. The RZ7-FEM offers the following timing functions:	One NO contact Multi-timing range (from 0.05s to 10h) Supply voltage selected via wiring terminals A1, A2 Bicolored LED indicator	RZ7-FEM1TU22	84.01
FEMIT 10 10 10 10 10 10 10 10 10 10	On-Delay One Shot/Watchdog Symmetric Flasher Starting With a Pulse The RZ7-FEM3 offers one single pole double throw contact that can be used as either a normally open or normally closed contact.	One SPDT contact Multi-timing range (from 0.05s to 10h) "Universal" terminals accept all appropriate supply voltages Bicolored LED indicator	RZ7-FEM3TU23	88.99
(A) On-Delay	(B) Off-	Delay		
Output t A1/A2 Output t 18	T N.O. (SPST)	A1/A2 A1/B1 18 1 N.O. (6	A1 B1 5 15 15 15 18 SPST)	
U	S	A1/B1 t 15 18	A1 B1 S 15 A2 18 16 SPDT)	
(D) One Shot	(F) Flasi	her (Repeat Cycle Starting v	vith Pulse)	
Output t 15 18	~	A1/A2	A1 15 15 A2 16	
	1 N.O. (SPST)	1 N.O. (\$	SPST)	
Output t 15 16		A1/A2	A1 15 15 A2 18 16	
	1 C/0 (SPDT)	1 C/0 (S	- SPDT)	

Supply Voltage

The last three digits in the catalog number represent the supply voltage range the relay will accept:

ntago i a	ingo ano rolay will accopt	
U22	24V AC or DC	(A1/A2)
	110240V 50/60Hz	(A1/A2)
U23	2448VDC and 24V240V 50/60Hz	(A1/A2)

Bicolored LED

- 1 SPDT or 1 N.O. Contact Timers
 - LED U = Green: Supply voltage available
 - LED Relay = Red: Output is energized
 - OFF: No color

Timing Range Codes

RZ7-FEM with one NO or SPDT contact				
0.051 sec				
0.510 sec				
0.051 min				
0.510 min				
0.051 hour				
0.510 hour				

- For timing control, a voltage other than the supply voltage can also be used.
- 2 Timing range is screwdriver selectable from the faceplate.



Accessories

Accessory	Description	Catalog Number	Price
	Setting Knob With Scale - For time setting without tools.	RZ7-FSK	89.88
	Panel Mounting Adaptor - For surface mounting RZ7-FS/FE timing relays.	RZ7-FSA ❷	6.33
	DIN-rail - 2 meter lengths (≈6' 6") Top Hat, low profile (price per rail) Top Hat, high profile (price per rail) 3F 3AF		See page N30

Marking Systems

Component	Description		Catalog Number	Price Each
132	Label Sheet – 1 sheet with 105 self-adhesive paper labels each, 6 x 17mm CA7-FMS			
84	Marking Tag Sheet - 1 sheet with 160 perforated paper labels each, 6 x 17mm. To be used with transparent cover.		CA7-FMP	See page
	Transparent Cover - To be used with Marking Tag Sheets.	100	CA7-FMC	A54
Tag Carrier - For marking with Series V7 Clip-on Tags.		CA7-FMA2		

- Minimum order quantity is one package of 100.
- The RZ7 timing relay can be panel or DIN rail mounted. For best long-term performance, allow at least 5mm (0.2 in.) of space on each side of the relay for proper ventilation.



Series RZ7-FS Electronic Timing Relays

Technical Data

Timing Characteristics (according to V	DE 0435, Part 202	21)		
Timing ranges for RZ7-FSM-A, B, C, D, E, F, I, & L	(1s)	0.051 sec		
RZ7-FSH	(3s)	0.153 sec		
1121-1 311	(10s)	0.510 sec		
	, ,	0.051 min		
	(1mn)	0.051 min		
	(3mn)	0.510 min		
	(10mn) (1h)	0.051 hour		
	(3h)	0.153 hours		
	(311) (10h)	0.510 hours		
	(10h) (60h)	360 hours		
	, ,			
RZ7-FSQ	(2.5s)	0.152.5 sec		
	(10s)	0.510 sec		
	(80s)	480 sec		
	(10mn)	0.510 min		
Setting accuracy	±5% of full s			
Repeatability		e setting values		
Tolerance	Voltage: ±0.0	001%/%∆U		
	Temperature	: ±0.025%/°C		
Power Supply				
Supply voltages		and 24240VAC, 50/60Hz		
	(multi voltage	e)		
	12VDC			
		C or DC (universal voltage)		
	346440VA	· .		
Voltage tolerance	AC: -15%	+10%		
	DC: -20%	+20%		
Power consumption	AC: 5VA at 24	40V		
	DC: 0.5W at	24V		
Time energized	100%			
Reset time	50ms			
Voltage interruption	≤20ms without reset (supply voltage)			
Input Impedance	Relay On: 3k	-13k ohms		
	Relay Off: 0.7	7k-4k ohms		
Cable length	250 meters (250 meters (800 ft.) max.		
(supply voltage control)				
Pulse Control (B1)				
Impulse duration	≥50ms (AC),	≥30ms (DC)		
Input voltage	Supply voltage			
Input current	1 mA			
Max. Leakage Current	400 micro Ar	nps		
Cable length		(800 ft.) without parallel load between		
	max. 50 m (1 B1 & A2	60 ft.) with load (<3k Ω) between		
Outputs		,		
Type of outputs	Relay contac	ts: hard silver		
Maximum admissible operating voltage	Alternating c	urrent: 440VAC		
Dielectric Coil to contact Withstand Voltage	5,000 V			
Switching capacity				
Current I _{th} : (AC1)	8A (5A for RZ	27-FSQ)		
Power:	2000VA			
	according to	IEC947-5-1:		
	-	inductive load, AC14)		
	,	inductive load, AC15)		
	,	nductive load, DC13)		
	,	, ,		
	according to			
	1.5A/250VAC	, ,		
	3A/120VAC (D3UU)		

10 A gL (fast blow fuse)

Life expectancy (electrical)	4 million ops. at 1A/250VAC, $cos\phi = 1$		
	0.2 million ops. at 6A/250VAC, $cos\phi = 1$		
	1.5 million ops. at 1A/250VAC, $\cos \varphi = 0.3$		
	0.3 million ops. at 3A/250VAC, $\cos \varphi = 0.3$		
	0.5 million ops. at 6A/24VDC, resistive		
	2 million ops. at 4A/24VDC, resistive		
	2 million ops. at 0.2A/230VDC, resistive		
	1 million ops. at 0.4A/24VDC, L/R = 20ms		
	1 million ops. at 0.2A/110VDC, L/R = 20ms		
	1 million ops. at 0.1A/230VDC, L/R = 20ms		
Life expectancy (mechanical)	•		
General Data	2 kVAC/50 Hz test voltage according to VDE 0435 and 6 kV		
Insulation Characteristics	1.2/50 µs surge voltage according to IEC 947-1 between all		
FMO/II-II- f- · · · · · · · · · · · · · · · · · ·	inputs and outputs		
EMC/Interference Immunity	Performance of following requirements:		
	- Surge capacity of the supply voltage according to IEC1000-4-5: 4 kV 1.2/50 μs		
	- Burst according to IEC 1000-4-5: 4 kV 1.2/50 µs		
	- ESD discharge according to IEC 1000-4-2:		
	- Contact 8 kV, air 8 kV		
	- Electromagnetic HF field according to IEC 801-3		
	and conducted electromagnetic HF signal		
	according to IEC 801-6: Level 3		
EMC/Emission	Electromagnetic fields according to EN 55 022: Class B		
Safe isolation	According to VDE 106, part 101		
Climatic withstand	56 cycles (24h) at 2540°C and 95% relative humidity accord-		
100 00 00	ing to IEC 68-2-30 and IEC 68-2-3.		
Vibration resistance	4 g in 3 axis at 10500 Hz, test FC according to IEC 68-2-6		
Shock resistance	50 g according to IEC 68-2-27		
Protection class	Enclosure: IP40		
	IP30 (single function) Terminal: IP20 according to IEC 947-1		
Weight	100g		
Approvals/Standards	UL File E14840, C-UL up to 240VAC, CE		
Ambient temperature	Open: -25°C+60°C		
היוואיפיונ נפוווףפומנעופ	Enclosed: -25°C+45°C		
	Storage -40°C+85°C		
Connections Screw	M3.5 for Pozidrive No.2, Phillips and slotted screws No.2 suit-		
terminal -	able for power screwdriver.		
Rated tightening torque -	0.8 Nm (max. 1.2 Nm) - [8.8 lb-in]		
Wire Size -	Dual-chamber system for terminal cross-sections of 1 x 0.5mm ²		
Finger Drote-tie-	(solid) or 2 x 2.5mm² (flexible with sleeve), AWG 2014.		
Finger Protection -	According to VDE 0106		
Mounting	Can be panel or DIN rail mounted. For best performance allow at least 5mm (0.2in.) of space on each side for proper ventilation.		
	- Snap-on mounting (35mm DIN-rail)		
	Side mounting on CA7contactors and CS7 with dovetail joint		
	[surface mounting in any position]		
	 Screw fixing by Panel Mount Adapter and two screws (M4) 		
	[surface mounting in any position]		
Disposal	Synthetic material without dioxin according to EC/EFTA notifica-		
	tion No. 93/0141/D. Electrical contacts contain cadmium.		
Standards	EN 60947-1, EN 60947-5-1, EN 50081-1, IEC 947, UL 508.		
	CSA 22.2 No. 14		

RZ7 Relative Scale Setting KnobSeries RZ7 Timing Relays have a "relative scale" setting knob numbered 0 to 1.0. Think about this as 0 to 100% of the relay's built-in time range. Example: To set an RZ7-FS timing relay (with a 0.05 to 1 minute range) to activate after 25 seconds:

1) Divide the desired activation time (25 seconds) by the maximum time limit of the relay (60 $\,$ seconds).

 $25 \div 60 = .416$

2) Rotate the setting knob to just past the .4 mark.



Short circuit resistance



Series RZ7-FE Electronic Timing Relays

Technical Data

		RZ7-FE With NO Contact	RZ7-FE With SPDT Contact		
Setting Accuracy		$\pm 5\%$ of the time range final value (t_{max})	±5% of the time range final value (tmax)		
Repeatability		$\pm 1\%$ of the time range final value ($t_{\text{\tiny max}}$)	$\pm 1\%$ of the time range final value (t _{max.})		
Tolerance		by voltage: $\pm 0.01\%/\%\Delta U$ by temperature: $\pm 0.25\%/^{\circ}C$	by voltage: $\pm 0.001\%/\%\Delta U$ by temperature: $\pm 0.025\%/^{\circ}C$		
Supply					
Supply Voltage		24 AC or DC and 110240VAC, 50/60Hz	2448VDC and 24240VAC, 50/60 Hz		
Voltage Tolerance		-15%/+20% (DC), -15%/+10% (AC)	-15%/+20% (DC), -15%/+10% (AC)		
Power Consumption		0.5W at 24VDC, 5VA at 240VAC	0.5W at 24VDC, 5VA at 240VAC		
Timer Energized		100%	100%		
Recovery Time		100ms	100ms		
Voltage Isolation			≤30ms without reset (supply voltage)		
Cable length (supply volt	age control)	max. 250 meters (750 ft.)	max. 250 meters (750 ft.)		
Pulse Control (B1)					
Impulse Duration		≥250ms	≥50ms (AC), ≥30ms (DC)		
Input Voltage		supply voltage range	supply voltage range		
Input Current		1mA	1mA		
Cable Length		max. 250 meters without parallel load between B1 and A2	max. 250 meters without parallel load between B1 and A2		
		max. 50 meters with load (<3 k Ω) between B1 and A2	max. 50 meters with load (<3 k Ω) between B1 and A2		
Outputs					
Contact Type		1N.O. contact	1 Form C-SPDT contact		
Switching Capacity	Voltage:	250VAC	250VAC		
	Current:	5A (Resistive, AC1)	5A (Resistive, AC1)		
	Power:	1250VA	1250VA		
accordir	ng to IEC 947-5-1:	1A/250VAC (inductive load, AC14)	1A/250VAC (inductive load, AC14)		
		1A/24VDC (inductive load, DC13)	1A/24VDC (inductive load, DC13)		
ac	cording to UL508:	1A/300VAC (D300)	1A/300VAC (D300)		
Short Circuit Resistance		6A gL (fast blow fuse)	6A gL (fast blow fuse)		
Dielectric Withstand Volta	age (contact to coil)	4000V	4000V		
Life	mechanical:	20 million operations			
ele	ctrical operations:	$0.4 \text{ Mil. at } 1A/250 \text{VAC}, \cos \varphi = 1$			
		$0.4 \text{ Mil. at } 0.5 \text{A}/250 \text{VAC}, \cos \varphi = 0.4$			
		0.4 Mil. at 1A/2	24VDC, resistive		
State Indicator		1 bicolored LED (Supply = green; Relay = red)			
General Characteristics					
Insulation Characteristics		2 kVAC/50Hz test voltage according to VDE 0435 and 4kV 1.2/50μs surge voltage according to IEC 947-1 between all inputs and outputs			
EMC Interference Immunit	ty	The following requirements are fulfilled:			
		Surge capacity of the supply voltage according to IEC 1000-4-5: Level 3.			
		Burst according to IEC 1000-4-4: Level 3. ESD discharge according to IEC 1000-4-2: Level 3.			
EMC/Emission			ording to EN 55 022: Class B		
Safe Isolation					
Climatic Withstand		according to VDE 106, Part 101 56 cycles (24h) at 2540°C and 95% relative humidity according to IEC 68-2-30 and IEC 68-2-3			
Vibration Resistance			4g in 3 axis at 10500Hz, test FC according to IEC 68-2-6		
oration Resistance 4g in 3 axis at 10500nz, test FC according to IEC 68-2-6 50g according to IEC 68-2-27		,			
Protection Class					
Veight Enclosure: 1940 Terminal: 1920 Neight 60g					
Approvals/Standards UL File E14840, C-UL, CE			· ·		
Ambient Temperature Open: -25°C+60°C					
Ambient temperature		Enclosed: -25°C+45°C			
		Storage: -40°C+45°C			
Ctandard		· · · · · · · · · · · · · · · · · · ·			
Standard	Standard EN 60947-1, EN 60947-5-1, EN 50081-1, IEC 947, UL 508, CSA 22.2				



Series RZ7-FE Electronic Timing Relays

Technical Data (continued)

	RZ7-FE Witt NO Contact	·· (
General Characteristics (continued)		
Connections	Screw terminals:	M3 for Pozidrive No: 1, Phillips and slotted screws No: 2, suitable for power screwdriver
	Rated tightening torque:	0.8Nm (max. 1.0Nm) [8.8 lb-in]
	Wire size:	Cross-sections of 1 x 0.5mm ² 2 x 1.5mm ² (solid) or 2 x 1.5mm ² (stranded with sleeve)
	Finger protection:	AWG 2014
Mounting		Can be panel or DIN rail mounted. For best performance allow at least 5mm (0.2in.) of space on each side for proper ventilation. - according to VDE 0106
		Snap-on mounting on 35mm DIN-rail Side mounting on CA7contactors and CS7 with dovetail joint [surface mounting in any position] Screw fixing by Panel Mount and two screws (M4) - [surface mounting in any position]
Disposal Synthetic materials without dioxin according to EC/EF		Synthetic materials without dioxin according to EC/EFTA-Notification No: 93/0141/D
		Electrical contacts contain cadmium

RZ7 Relative Scale Setting Knob

Series RZ7 Timing Relays have a "relative scale" setting knob numbered 0 to 1.0. Think about this as 0 to 100% of the relay's built-in time range.

Example: To set an RZ7-FE timing relay (with a to activate after 25 seconds:

 Divide the desired activation time (25 seconds) by the maximum time limit of the relay (60 seconds).

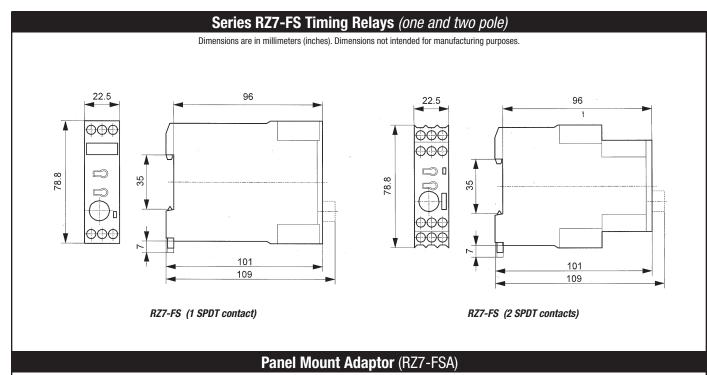
 $25 \div 60 = .416$

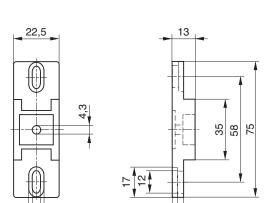
2) Rotate the setting knob to just past the .4 mark



0.05 to 1 minute range)

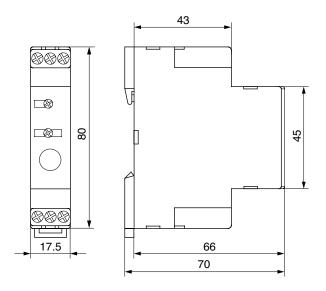






Series RZ7-FE Timing Relays (one and two pole)

Dimensions are in millimeters (inches). Dimensions not intended for manufacturing purposes.



Panel Mount Adaptor (26.506.221-01)

