

Klemsan® Relay Timers

Relay Timers - Single Function Series

Overview

The Single Function Series relay timers are timing relays designed for process control, machine tool control, safety control and a wide range of industrial applications. The timers offer high sensitivity and switching capacity and are 35mm DIN rail mountable.

Features

- Sleek design with 18mm width in accordance with DIN norm
- Conforms to IEC 61812-1, UL 508, and CSA C22.2 No: 14
- Wide power supply range
- SPDT relay output (10A)
- Wide and easily adjustable time range
- LED notifications
- High sensitivity and switching capacity
- High mechanical endurance



Z1A-ND100S



Z1T-NDX



Z1T-FDF

Single Function Relay Timers Selection

Part Number	Price	Timer Type/Mode	Timing Range	Voltage	Output Type	Drawing Link
<u>Z1A-ND30S</u>	\$16.75	On-delay	1–30 seconds selectable	24 VAC/VDC and 180–265 VAC	(1) SPDT timed relay	<u>PDF</u>
<u>Z1A-ND100S</u>	\$16.75		1–100 seconds selectable	12–240 VAC/VDC		<u>PDF</u>
<u>Z1T-ND100S</u>	\$21.00					<u>PDF</u>
<u>Z1T-NDX</u>	\$22.50		0–5,109 seconds selectable			<u>PDF</u>
<u>Z1T-NDF</u>	\$19.00	On-flasher	0.1 seconds to 10 days selectable			<u>PDF</u>
<u>Z1T-FDF</u>	\$19.00	Off-flasher		<u>PDF</u>		

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Single Function Relay Timers Specifications		
Operating Voltage		12–240 VAC/VDC \pm 10% 24 VAC/VDC (A2–A3) and 180–265 VAC (A1–A3) (for Z1A-xxx)
Operating Frequency		45–65 Hz
Power Consumption	AC	< 1.5W
	DC	< 5 VA
Relay Outputs	Maximum Switching (Voltage/Current/Power)	250 VAC / 10A / 1250 VA
Cable Cross Section		2.5mm ² / AWG 14–30 solid or stranded
Screw Tightening Torque		0.5 N•m / 4.5 lb•in
Cable Stripping Size (Minimum/Maximum)		8mm / 9mm
Operating Temperature Range		-20 to +60 °C [-4 to +140 °F]
Maximum Surrounding Air Temperature		60 °C [40 °F]
Protection Degree (IEC 60529)		IP20
Pollution Degree		2

*Note: Use 60/70°C copper (CU) wire only.

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Relay Timers - Multi-Function Series

Overview

The Multi-Function Series relay timers are timing relays designed for process control, machine tool control, safety control and a wide range of industrial applications. The timers are 35mm DIN rail mountable with up to 10 functions in one unit.

Features

- Sleek design with 18mm width in accordance with DIN norm
- Conforms to IEC 61812-1, UL 508, and CSA C22.2 No: 14
- Wide power supply range
- 1 SPDT relay output (10A)
- Wide and easily adjustable time range
- LED notifications
- High sensitivity and switching capacity
- High mechanical endurance
- Multifunctional
- Function control with trigger input



Z1T-M2



Z1T-M5



Z1T-M4

Multi-Function Relay Timers Selection

Part Number	Price	Timer Type	Timing Range	Voltage	Output Type	Drawing Link
<u>Z1T-M2</u>	\$23.75	Multi-mode delay	0.1 seconds to 99.9 hours selectable	12–240 VAC/VDC	(1) SPDT timed relay	<u>PDF</u>
<u>Z1K-M2A</u>	\$29.00	Triggered delay				<u>PDF</u>
<u>Z1T-M4</u>	\$25.75	Multi-mode	1 seconds to 10 days selectable			<u>PDF</u>
<u>Z1T-M5</u>	\$27.75	Multi-mode delay	0.1 seconds to 10 days selectable			<u>PDF</u>
<u>Z1K-M10</u>	\$38.00	Multi-mode	0.1 seconds to 10 days selectable			<u>PDF</u>
<u>Z1K-M10A</u>	\$38.00					<u>PDF</u>

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Relay Timers - Multi-Function Series

Multi-Function Relay Timers Selection		
Part Number	Timer Type	Timer Function
<u>Z1T-M2</u>	Multi-mode delay	On Delay (ND) Off Delay (FD)
<u>Z1K-M2A</u>	Triggered delay	On Delay with Trigger (yND) Off Delay with Trigger (yFD)
<u>Z1T-M4</u>	Multi-mode	On Delay (ND) Off Delay (FD) On Flash (NDF) Off Flash (FDF)
<u>Z1T-M5</u>	Multi-mode delay	On Delay (ND) Off Delay (FD) On-Off Delay (NFD) On Flash (NDF) Off Flash (FDF)
<u>Z1K-M10</u>	Multi-mode	On Delay (ND) Off Delay (FD) Off Flash (FDF) On Delay with Maintained Control Signal (yMN) Off Delay with Maintained Control Signal (yMF) Interval with Control Signal On (yIR) On and Off Delay with Control Signal (yNF) Pulse Output with Control Signal (yP) Interval with Control Signal Off (yIF) Additive On Delay (yNA)
<u>Z1K-M10A</u>		On Delay (ND) Off Delay (FD) Off Flash (FDF) On Delay with Maintained Control Signal (yMN) Off Delay with Maintained Control Signal (yMF) Interval with Control Signal On (yIR) On and Off Delay with Control Signal (yNF) Pulse Output with Control Signal (yP) Interval with Control Signal Off (yIF) Pulse Delayed Relay with Control Signal (yN)

Multi-Function Relay Timers Specifications		
Operating Voltage		12-240 VAC/VDC \pm 10%
Operating Frequency		45-65 Hz
Power Consumption	DC	1.5W
	AC	5 VA
Relay Outputs	Number and Type of Contacts	1 C/O
	Maximum Switching (Voltage/Current/Power)	250 VAC / 10A / 1250 VA
Cable Cross Section		2.5mm ² / AWG 14-30 solid or stranded
Screw Tightening Torque		0.5 N•m / 4.5 lb•in
Cable Stripping Size (Minimum/Maximum)		8mm / 9mm
Operating Temperature Range		-20 to +60 °C [-4 to +140 °F]
Maximum Surrounding Air Temperature		60 °C [140 °F]
Protection Degree (IEC 60529)		IP20
Pollution Degree		2

*Note: Use 60/75°C copper (CU) wire only.

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Relay Timers - Special Function Series

Overview

The Special Function Series timers are timing relays that have been designed for process control, machine tool control, safety control and a wide range of industrial applications. The timers are 35mm DIN rail mountable with one function per unit.

Features

- Sleek design with NEW 18mm width in accordance with DIN norm
- Conforms to IEC 61812-1, UL 508, and CSA C22.2 No: 14
- Wide power supply range
- Wide and easily adjustable time range
- LED notifications
- High sensitivity and switching capacity
- High mechanical endurance



[Z1T-SD](#)



[Z1T-LR.2](#)

Special Function Relay Timer Selection						
Part Number	Price	Timer Type/Mode	Timing Range	Voltage	Output Type	Drawing Link
Z1T-LR.2	\$38.00	Left-right	0.1 seconds to 10 days selectable	12–240 VAC/VDC	(1) DPDT timed relay	PDF
Z1T-SD	\$27.00	Star-delta	1–30 seconds / 20–500 milliseconds selectable	12–240 VAC/VDC	(1) SPDT timed relay	PDF
Z1T-SD-500	\$23.50			150–500 VAC	(1) DPDT timed relay	PDF

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Relay Timers - Special Function Series

Special Function Relay Timers Specifications		
Operating Voltage		12-240 VAC/VDC \pm 10% 150-500 VAC (for Z1T-SD-500)
Operating Frequency		45-65 Hz
Power Consumption	DC	<1.5W
	AC	< 5 VA < 10 VA (for Z1T-SD-500)
Relay Outputs	Number and Type of Contacts	2 C/O (Z1T-LR.2) 2 N.O.
	Maximum Switching (Voltage/Current/Power)	250 VAC /10A / 1250 VA
Cable Cross Section		2.5mm ² / AWG 14-30 solid or stranded
Screw Tightening Torque		0.5 N•m / 4.5 lb•in
Cable Stripping Size (Minimum/Maximum)		8mm / 9mm
Operating Temperature Range		-20 to +60 °C [-4 to +140 °F]
Maximum Surrounding Air Temperature		60 °C [140 °F]
Protection Degree (IEC 60529)		IP20
Pollution Degree		2

*Note: Use 60/75°C copper (CU) wire only.