Klemsan®
www.klemsan.com.tr

Z1T-L.R2
Z1T-SD
Z1T-SD-500

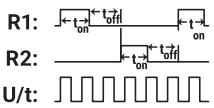
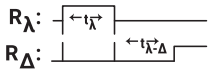
# Special Function Timer Relays

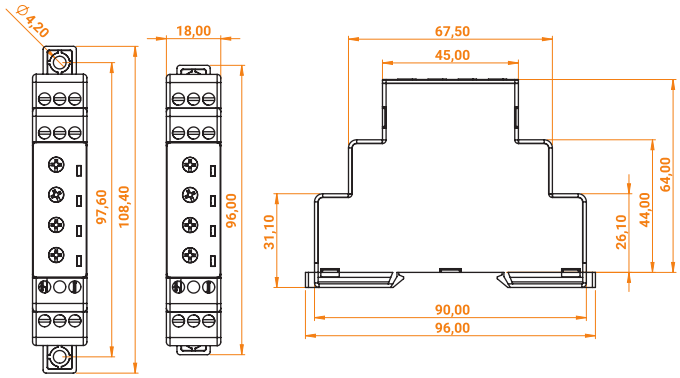
- » Sleek design with NEW 18 mm width in accordance with DIN norm
- » Conforms to IEC 61812-1
- » Wide power supply range
- » Wide and easily adjustable time range
- » LED notifications
- » High sensitivity and switching capacity
- » High mechanical endurance

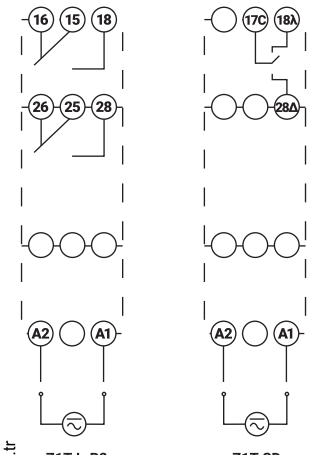
| Model Name | Order No | Mode | Time Range |
|---|---|---|---|
| Z1T-L.R2 | 261020 | LR | 0.1 sec .. 10 days |
| Z1T-SD | 261021 | SD | 1 .. 30 sec, 20 .. 500 msec |
| Z1T-SD-500 | 261022 | SD | 1 .. 30 sec, 20 .. 500 msec |

| | | |
|---|---|---|
| **Operating Voltage** | | 12..240V AC/DC ±10%<br>150..500V AC (for Z1T-SD-500) |
| **Operating Frequency** | | 45..65Hz |
| **Power Consumption** | DC | < 1.5 W |
| | AC | < 5 VA<br>< 10 VA (for Z1T-SD-500) |
| **Relay Outputs** | Number and Type of Contacts | 2 C/O (for Z1T-LR.2)<br>2 NO (for Z1T-SD ve Z1T-SD-500) |
| | Maximum Switching (Voltage/Current/Power) | 115 VAC / 10A / 1250 VA 250VAC / 5 A / 1250 VA<br>250VAC/16A/2000 VA 125VAC/ 8A/2000 VA (for Z1T-SD-500) |
| **Cable Cross Section** | | 2.5mm² / AWG 14-30 solid or stranded |
| **Screw Tightening Torque** | | 0.5 Nm / 4.5 lb-inch |
| **Cable Stripping Size (Min / Max)** | | 8mm / 9mm |
| **Operating Temperature Range** | | -20 / +60 °C |
| **Max Surrounding Air Temperature** | | 60°C (55°C for Z1T-SD-500) |
| **Protection Degree (IEC 60529)** | | IP 20 |
| **Pollution Degree** | | 2 |

**NOTE:** Use 60/75°C copper (CU) wire only. (75°C for Z1T-SD-500)

| OPERATION MODE | FUNCTION ILLUSTRATION | FUNCTION STATEMENT |
|---|---|---|
| **Left-Right Timer (mod: LR)** |  | Initially first relay is energized. After the adjustable time delay $t_{on}$, relay is de-energized. Both relays are de-energized during adjustable time delay $t_{off}$. At the the end of toff, second relay energizes. Second relay stays in this position during ton. When ton finished both relays are de-energized. This cycle is repeated continuously. |
| **Star-Delta Timer (mod: SD)** |  | When energy applied to device, star relay is energized until the end of the adjustable $t_\lambda$ time. At the end of the adjusted delay time $t_{\lambda-\Delta}$, delta relay is energized until the device is powered off. |

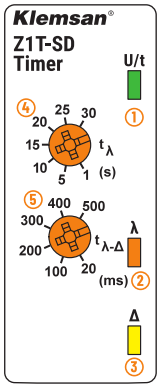


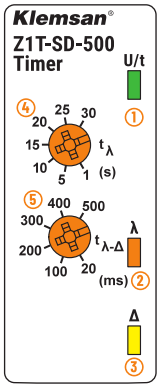

Z1T-L.R2



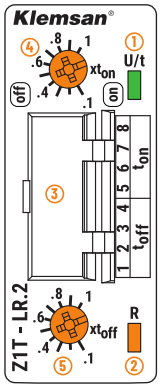

Z1T-SD
Z1T-SD-500

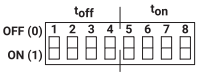



① Power Status LED
② Star Relay Status LED
③ Delta Relay Status LED
④ Time Adjustment for Star Connection
⑤ Time Adjustment for Between Star-Delta




① Power Status LED
② Star Relay Status LED
③ Delta Relay Status LED
④ Time Adjustment for Star Connection
⑤ Time Adjustment for Between Star-Delta




$t_{off}$ (1,2,3,4), $t_{on}$ (5,6,7,8)

| | |
|---|---|
| 0000 : 1 second | 1000 : 10 minute |
| 0001 : 5 second | 1001 : 30 minute |
| 0010 : 10 second | 1010 : 1 hour |
| 0011 : 20 second | 1011 : 5 hour |
| 0100 : 30 second | 1100 : 10 hour |
| 0101 : 60 second | 1101 : 30 hour |
| 0110 : 100 second | 1110 : 100 hour |
| 0111 : 5 minute | 1111 : 10 day |

① Power Status LED
② Relay Status LED
③ Time Range Adjustment and Mod Selection Switches
④ "$t_{on}$" Delay Multiplier Adjustment Pot
⑤ "$t_{off}$" Delay Multiplier Adjustment Pot

Doc.No.9.0.0.9.040159
www.klemsan.com.tr
Rev. No.13082025