Klemsan®

SPECIAL FUNCTIONAL RELAYS

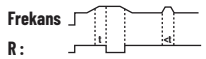
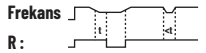
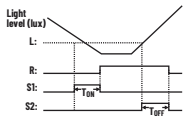
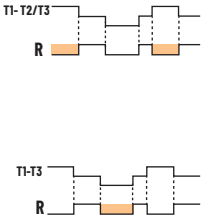
- » Product design in accordance with TS EN 60255 standard
- » 18mm thin product body conforming to DIN Standard
- » TRMS measurement
- » Red LED indicators for fault notification
- » Orange LED indicator for relay status
- » Adjustable knobs for time and limit values
- » 5A SPDT relay output
- » Microprocessor based,
- » Optional PTC, Luminious Intensity Monitoring and Frequency Protection
- » High precision and high mechanical strength

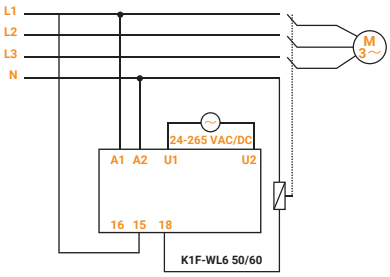
Product Guide

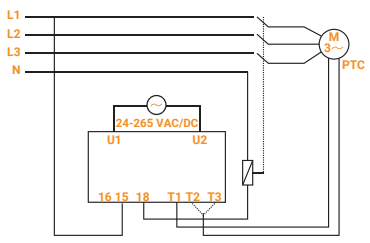
Products	Stock Code	Connection Type	Frequency Monitoring	PTC Monitoring	Luminious Intensity Monitoring
K1F-WL6 50/60	270294	1P2W	√		
FK1T-P 24-265	270297	1P2W		√	
K1TW-D7 20K	270298	1P2W			√

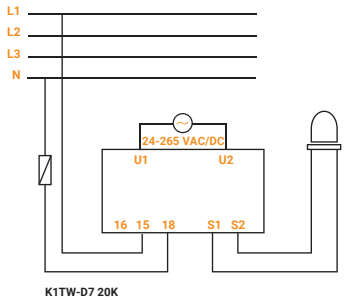
Technical Details

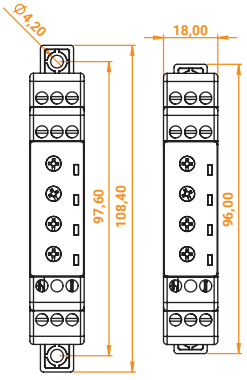
Operating Voltage		24 - 265 V AC/DC
Frequency measurment voltage		85-300 VAC
Operating Frequency		50 / 60 Hz
Supplyig Terminals (Burden)		U1-U2 (12,7 kΩ)
PTC Inputs (Burden)		T1-T2 (4,7 MΩ) T1-T3 (6.85 MΩ)
Photocell Censor Inputs (Burden)		S1-S2 (4,7 MΩ)
Frequency Measurement Inputs		A1-A2 (191 kΩ)
Frequency Protection Range		45 - 65 Hz
Luminious Intensity Degree		1 - 20 lux
Fault Delay Period		ton=2 sn / toff= 0.1-10sn (K1F-WL6 50/60 for) ton=1-60 sn / toff= 1-60sn (K1TW-D7 20K for) ton=2 sn / toff= 2sn (FK1T-P 24-265 for)
Energization Delay		< 1 sn
Histerisis		3%
PTC Alarm Threshold Value	Short Circuit	20 Ω
	High Value	2.7 kΩ
Output Contact		1 C/O
Max. Switching Voltage / Current / Power		250VAC / 5A / 1250VA - 30VDC / 5A / 150W
Over Voltage Category (IEC 60664))		CAT III
Cable Cross Section		2.5 mm² (Only Copper Conductor) / 14 AWG Solid / Stranded
Screw Tightening Torque		0.5 Nm
Cable Stripping Size (Min/Max)		8 mm / 9 mm
Power Consumption		< 13 VA
Operating Temperature Range		-20 / +60 °C
Protection Degree (IEC 60529))		IP 20
Activated I/O's at the max temperature	Relay	1
	PTC Input	2
	Photocell Sensor Input	1

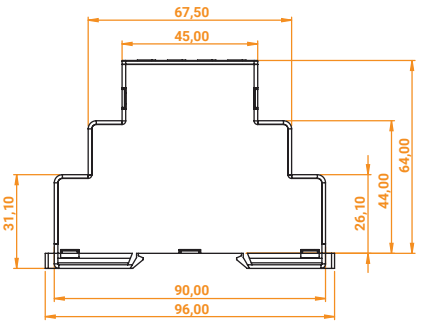
Fault Types	Relay Actions	LED Notification
High Frequency: If the signal that applied from terminals A1 and A2, is higher than the set high frequency limit,high frequencyfault occurs. Relay activation and LED notification are shown in the adjacent figure.		
Low Frequency: If the signal that applied from terminals A1 and A2, is less than the set low frequency limit, low frequency fault occurs. Relay activation and LED notification are shown in the adjacent figure.		
Luminious Intensity Monitoring The light intensity in the enviroment is measured by way of photocells. On-Off treshold value, can be adjusted between 1-20 lux with the adjustment knobs on the device. If the light intensity level is below this value, the output relay will be active otherwise, the output relay will be passive.		
PTC Fault: **a. PTC High Valure Fault:** When T1-T2 or T1-T3 detects high value, PTC high value fault occurs. Relay activation and LED notification are shown in the adjacent figure. **b. PTC Short Circuit Fault:** If short circuit fault is detected in the device, PTC short circuit fault occurs when there is a short circuit between PTC inputs T1-T3. Relay activation and LED notification are shown in the adjacent figure.		











Rev.No.23072024
klemsan.com.tr
Kızılüzüm,
Kızılüzüm Cad.
No:15, 35730
Kemalpaşa/İzmir