Threshold Time Relay with Starting Delay
GWZ100

Application / Function

If the threshold value set is exceeded, the threshold time relay GWZ100 switches on an adjustable time circuit on completion of which the output relay is activated. If the value falls below the threshold, the time circuit returns to the beginning.

The unit is used in all fields of switchgear and control technology in which 20mA or 10V signals are evaluated. The design of the GWZ100 makes it insensitive to electrical disturbances on the incoming lines.

In the range of the adjusting potentiometer 0-100% (0-20mA / 0-10V), the threshold value is recorded in linear fashion and evaluated accordingly. In 0 position of the threshold value adjuster and if the measuring input is not connected, the threshold value can be exceeded and the time circuit initiated without this being an error.

Functional Circuits

- Functional circuit "Threshold exceeded", left-hand LED lights up and time circuit starts.
- Functional circuit "Threshold exceeded and time set completed", both LEDs light up and the relay switches through.
- Function "Undershooting of threshold", LEDs go off, relay and time circuit switch back to the beginning without a delay.

Technical Data

Type
Thermal Time Relay with Starting Delay GWZ100

Construction
Plastic housing on 35mm hat rail as per DIN EN 50022

Material of housing
Bayblend FR 1439/0240 modified ABS with burning protection UL 94 VO

Dimension, Weight
55x68x110mm (WxHxD), ca. 0.4 kg

Rated Voltage
231VAC +/- 15% Other values on request

Power Consumption
2.5 W

Input Signal
0-20mA (50 Ohm) or 0-10V (1K) on request

Switching Delay
0.1 – 3 sec

Hysteresis of switch over
appr. 2 %

Repeat Accuracy
1%

Temperature drift
1% (0-55°C)

On Period
100 %

Terminal Load
5A/250VAC , 5A/30VDC , 0.015 Ohm contact resistance , 105 life time

Voltage Protection
3000V (coil-contact), 1000V (open contact)

Connection Terminals
For wire connection up to 2.5 mm², potentialfree input terminal

Type of Protection
Housing IP 40 , terminals IP 20 (bzw. VDE 0106T100/VBG4 )

Operating Temp. Range
-10 °C bis +55°C , 95% Humidity

Potential Separation
EN 60 742 (safety transformers)

General Regulations
EN 50 178 (electrical units in power current installation)

Noise suppressions
EN 55 022/B

EMV
EN 61000 und EN V 50 140

Installation Position
Any position

Maintenance
Free of maintenance

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