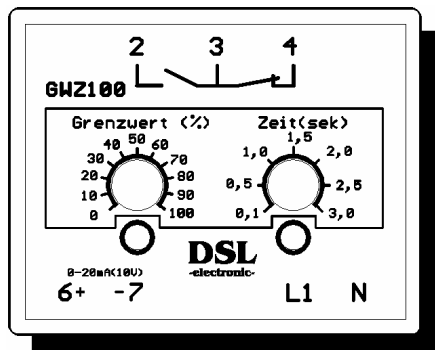


Threshold Time Relay with Starting Delay GWZ100



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	Threshold 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 , 10 ⁵ life time
Voltage Protection	3000V (coil-contact), 1000V (open kontakt)
Connection Terminals	For wire connection up to 2,5 mm ² , 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