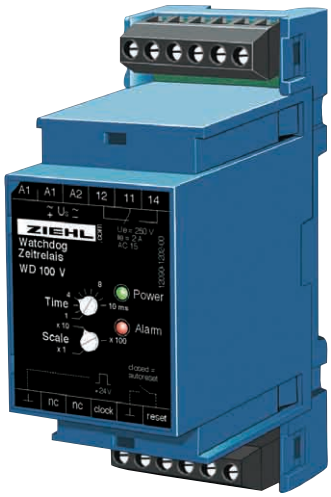
Watchdog Time-Relay Type WD100V

WD100V



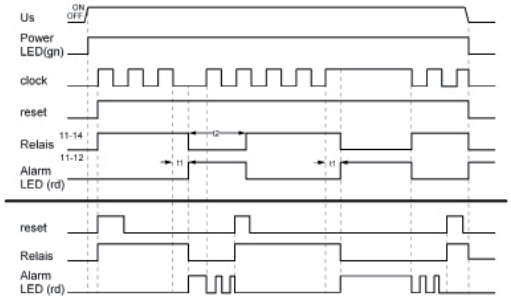
In the control technology of today, the number of industrial PCs (IPC) partly with decentralized intelligence constantly increases. Individual processes are controlled independent of each other. In case of failure or malfunction of one component, it can therefore be necessary to switch off the hardware of a complete machine or plant.

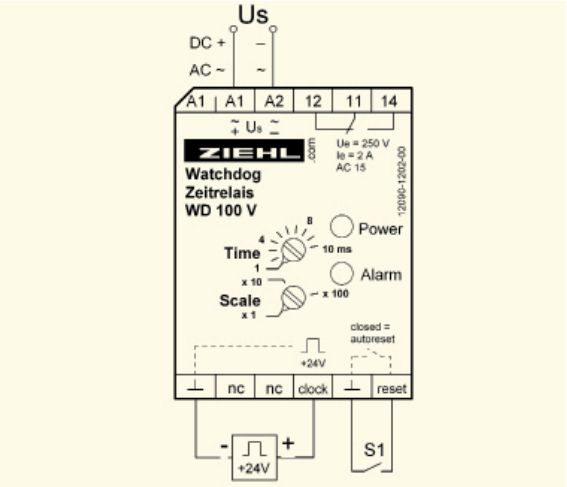
Time-Relay WD100V is used to make sure that because of malfunctions in the program flow, caused by short-term voltage interruptions for instance, no undefined status are created.

Application:
Monitoring of controls/IPC in packing machines.
Monitoring of application software

Order-number **Z224317**

The software of the IPC creates a square wave voltage (DC 24 V) with a cycle time of 1 to 1000 ms.
The output relay (1 potential free change-over contact) of the watchdog time relay WD100 is picked up if the supply voltage and the square wave voltage are fed. The relay releases the preset time (Time x Scale) after the last recognized slope when the next slope is missing. Positive slopes as well as negative slopes are monitored. When the square signals recovers and the reset-input is closed or supply-voltage is switched on, the relay picks up again (not earlier than 500 ms after switching off).
The output signal can be evaluated by a superordinate control or directly switched into the emergency-stop circuit of the machine.





Technical Data

Rated supply voltage U_s	AC/DC 24-240 V, 0/50/60 Hz, <2W, < 3 VA DC 20,4-297 V, AC 20-264 V
Contact elements	1 change-over contact (co)
Contact type	**Type 2** see "General technical Informations"
Measuring input clock	app. DC 24 V square wave (LOW ≤4 V, HIGH ≥12 V) Relay picked up when square wave voltage is fed Relay is released 1-1000 ms after last slope
Pulse lenth	0,5 ... 1000 ms
Input Reset	Button for Reset / bridge = autoreset
Rated ambient temp. range	-20°C...+55°C
Dimensions h x w x d	Design V2: 90 x 35 x 58 [mm]
Weight	approx. 100 g
Attachment	on 35 mm DIN-rail or with screws M4.
Protection housing / terminals	IP 30/ IP 20