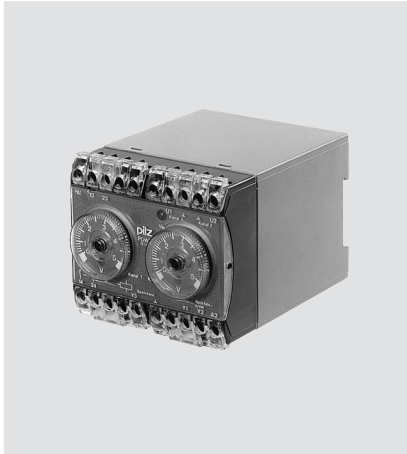


Speed PDWZ



Speed monitor in accordance with VDE 0113-1, 11/98, EN 60204-1, 12/97, EN 1088, 12/95 and IEC 204-1, 11/98.

Features

- Monitors safe reduced speed
- Single or dual-channel operation via tachogenerator
- Simultaneity monitoring
- Cable break detection
- Automatic self-test

Approval

	PDWZ
	●
	●

Technical Details	PDWZ
Electrical Data	
Supply Voltage	AC: 110, 230 V DC: 24 V
Tolerance	85 ... 110 %
Residual Ripple DC	20 %
Power Consumption	Approx. 3.5 W/3.5 VA
Switching Capability in accordance with EN 60947-4-1, 10/91	AC1: 240 V/6 A/1500 VA DC1: 24 V/6 A/150 W
EN 60947-5-1, 10/91 (DC13: 6 cycles/min.)	AC15: 230 V/4 A; DC13: 24 V/3 A
Output Contacts	2 safety contacts (N/O)
Hysteresis per channel	
Response value	$U_{on}: 10 \dots 100 \% U_N$
Release value	$U_{off}: 0.8 \times U_{on}$
Measuring Ranges	25 ... 250 mV; 50 ... 500 mV; 0.5 ... 5 V
Maximum overload (100 % CD)	50 V; 50 V; 200 V
Impedance	21 k Ω ; 21 k Ω ; 180 k Ω
Frequency	30 ... 400 Hz
Meas. Ranges (positive voltage only)	25 ... 250 V; 0.5 ... 5 V
Maximum overload (100 % CD)	300 V DC; 500 V DC
Impedance	300 k Ω ; 460 k Ω
Frequency	30 ... 400 Hz
Contact Fuse Protection (EN 60947-5-1, 10/91)	6 A quick or 4 A slow
Times	
Delay-on De-energisation	Approx. 50 ms
Delay-on Energisation after supply voltage is applied	Approx. 0.3 s
Simultaneity channel 1/2	Approx. 0.5 s
Mechanical Data	
Torque Setting on Connection Terminals	1.2 Nm (screws)
Maximum Cross Section of External Conductors	2 x 2.5 mm ² Single-core or multi-core with crimp connectors
Dimensions (H x W x D)	87 x 90 x 115 mm
Weight	AC: 600 g, DC: 500 g

Description

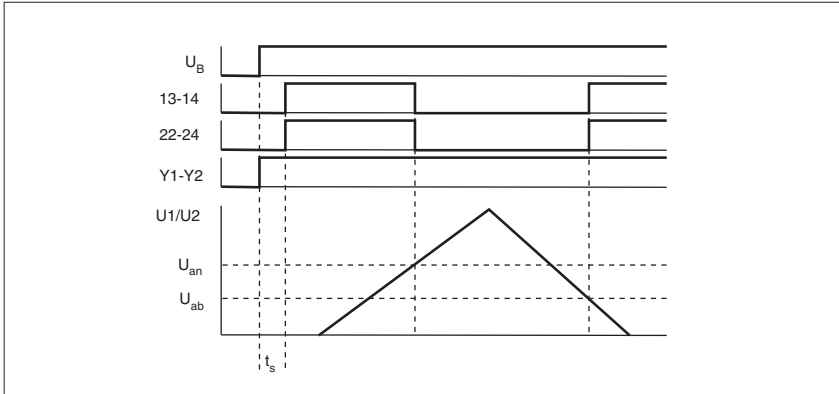
- 90 mm P-75 housing, DIN-Rail mounting
- Positive-guided relay outputs:
 - 2 safety contacts (N/O)
- LEDs for power, fault at channel 1/2
- Versions available with different tacho voltages
- Increase in the number of safety contacts available by connecting expander modules.

Operating Modes

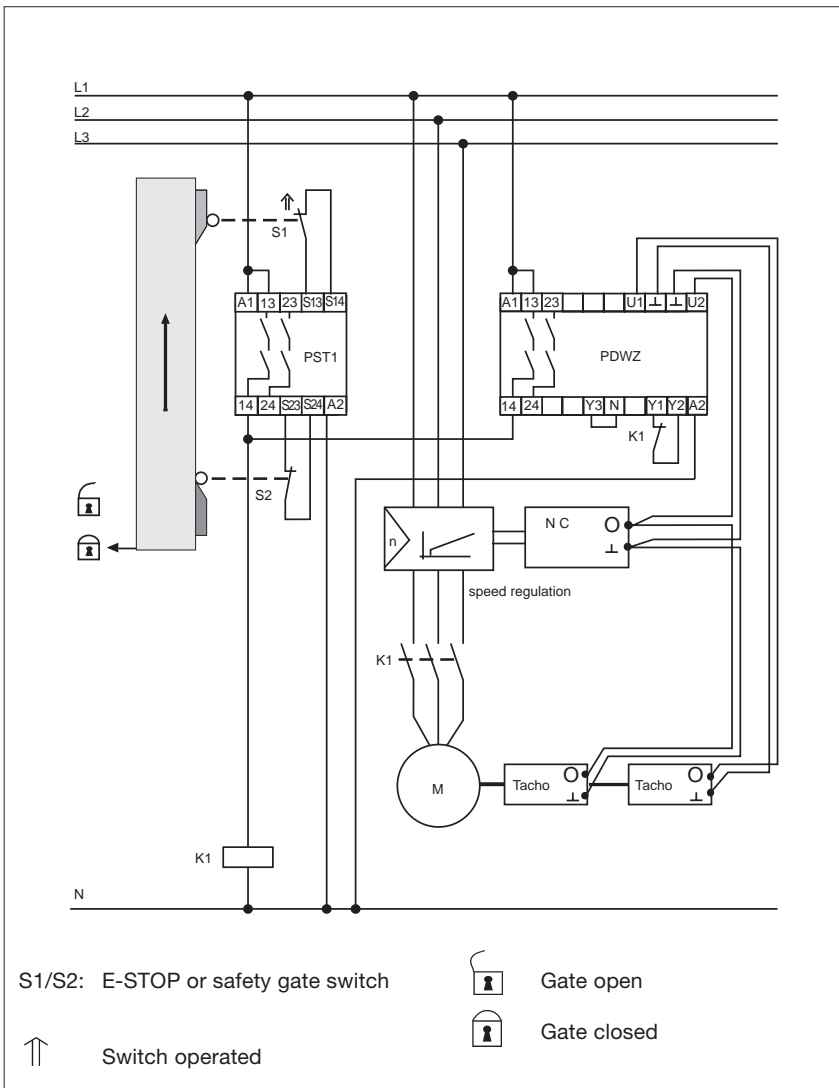
- Single-channel operation
- Dual-channel operation
- Automatic reset
- Manual reset

Speed PDWZ

Function Diagram



Connection Example



Speed PDWZ

General Technical Data

Unless stated otherwise in the technical details for the specific unit

Electrical Data

Frequency Range AC	50 ... 60 Hz
Residual Ripple DC	160 %
Contact Material	AgSnO ₂
Continuous Duty	100 %

Environmental Data

EMC	EN 50081-1, 01/92, EN 50082-2, 03/95
Vibration in accordance with EN 60068-2-6, 04/95	Frequency: 10 ... 55 Hz, Amplitude: 0.35 mm
Climatic Suitability	DIN IEC 60068-2-3, 12/86
Airgap Creepage	DIN VDE 0110 part 1, 04/97
Ambient Temperature	-10 ... +55 °C
Storage Temperature	-40 ... +85 °C

Mechanical Data

Torque Setting on Connection Terminals	0.6 Nm (screws)
Mounting Position	Any
Housing Material	Thermoplast Noryl SE 100
Protection	Mounting: IP 54 Housing: IP 40 Terminal Range: IP 20

The units were tested in accordance with the relevant standards current at the time of development.

Order References

Type	U _B	Order No.
PDWZ	U _B 110 V AC / U _M 250 V DC	407 793
PDWZ	U _B 110 V AC / U _M 5 V DC	407 785
PDWZ	U _B 230 V AC / U _M 5 V DC	407 789
PDWZ	U _B 230 V AC / U _M 250 V DC	407 790
PDWZ	U _B 24 V DC / U _M 250 mV DC	407 798
PDWZ	U _B 24 V DC / U _M 250 V DC	407 792
PDWZ	U _B 24 V DC / U _M 500 mV DC	407 797
PDWZ	U _B 24 V DC / U _M 5 V DC	407 799
PDWZ	U _B 24 V DC / U _M 5 V DC P500	407 795