



Limit-value switch for wind GSW 2 / GSW U2

Wind sensor SW 2

SPECIAL FEATURES:

- Potential-free relay contact
- Electrically isolated sensor supply (PELV)
- Adjustable switch-off delay
- Display for switching threshold
- Low power input

GENERAL:

GSW 2 and GSW U2 are universally applicable limit-value switches for wind monitoring. In combination with the wind sensor SW 2, a wind force of 2 - 8 (approx. 10-70 km/h) can be measured. The limit-value switch supplies the windsensor with a potential-free extra-low voltage (PELV). Therefore no external power supply is needed for operation.

APPLICATION:

Protection of outdoor blinds, awnings etc. against storm damage.

OPERATION:

A wind force exceeding the set limit is immediately displayed by the "hold" LED. After expiry of the preset on-delay "t_{on}", the relay contact is connected through. Depending on the "relay mode" setting, the relay either remains active for only 2 seconds or remains permanently energised during the storm phase. For example, downstream controls can remain usable, or else actuation by the GSW 2 overrides all other systems. The adjustable off-delay "t_{off}" ensures a continuously stable switch status, even if the wind falls below the switching threshold for a short period. In the extremely compact flush-mounted variant GSW U2, the 2-second pulse mode and the adjustable response time are not available.

ORDERING INFORMATION:

Part No.	Type	Description
gsw209	GSW 2	Limit value switch for wind
gswu29	GSW U2	Limit value switch for wind flush mounting
sw2000	SW 2	Wind sensor with articular mount

TECHNICAL DATA COMMON TO GSW 2 / GSW U2:

Operating voltage	230V 50/60Hz 10%
Power input	approx. 0.4W
Measuring range	wind force 2-8 (10-70 km/h)
Switching hysteresis	approx. 25%
Switch-off delay	adjustable 3s - 240s
Sensor power supply	10V DC PELV
Relay output	1 NO contact, 250V 10A
Contact load capacity	see data sheet "Relay contacts"
Ambient temperature	-10°C to +45°C
Interference immunity	compliant IEC 0801-4 level 4
Equipment protection	compliant IEC 0801-5 level 4
Creepage/clearance	4 compl. VDE 0110 Gr. C/250V
Insulated housing	flameproof to VDE 0304 part 3, level FV 0
Connections	socket terminals with captive screws M3.5
Installation position	freely selectable
Colour (RAL)	grey 7035 / green 6029

TECHNICAL DATA GSW 2

Response time	adjustable 1s - 30s
Fixing	clip fastening on 35 mm standard rail DIN EN 50022
External dimensions	18x88(45)x58mm
Installation depth	55mm
Weight	approx. 80g

TECHNICAL DATA GSW U2

Response time	approx. 5s
External dimensions	43x43x18.5mm
Weight	approx. 40g

TECHNICAL DATA SW 2:

Sensor type	Reed contact pulse generator
Feed line length	max. 50m (at 2x0.25mm ²)
Dimensions	approx. 130x115x180mm