



## 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<sub>on</sub>", 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<sub>off</sub>" 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	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 <sup>2</sup> )
Dimensions	approx. 130x115x180mm