



## LSW

Limit-value switch for wind

### Product description

The LSW is a universally applicable limit-value switch for wind monitoring and protects the outdoor blinds, awnings etc. against storm damage.

In combination with the wind sensor SW1, a wind force of 2 to 8 (approx. 10 – 70 km/h) can be measured.

The limit-value switch supplies the wind sensor with a potential-free extra-low voltage (PELV). Therefore, no external power supply is needed for operation.

### 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 LSW 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.

### Security advices

- Equipment connection and start-up shall be carried out by authorized skilled electricians only.
- For installation, assembly, operating and accident prevention please comply with the regional provisions in force.
- The device shall be disconnected prior to connection and maintenance operations.
- Do not start the device in case of dangerous situation, but rather set it out of service.
- The device shall be used for the intended use only and according to the specified technical data.
- The wiring of control section and BUS must meet SELV requirements.



SW1



### Technical details

<b>Operating voltage</b>	230 V AC, 50/60 Hz, 10 %
<b>Power input</b>	ca. 0,4 W
<b>Measuring range</b>	Wind force 2 to 8 (10–70 km/h)
<b>Switching hysteresis</b>	ca. 25 %
<b>Switch-off delay</b>	adjustable 1s to 60 s
<b>Sensor power supply</b>	10 V DC (PELV)
<b>Relay output</b>	1 NO contact, 250 V AC, 10 A potential-free
<b>Contact load capacity</b>	2 A
<b>Ambient temperature</b>	-10 °C to +45 °C
<b>Interference immunity</b>	compliant IEC 0801-4 level 4
<b>Equipment protection</b>	compliant IEC 0801-5 level 4
<b>Creepage/clearance</b>	compliant VDE 0110 sizeC/250V
<b>Response time</b>	adjustable 1s to 30s
<b>Connections</b>	socket terminals with captive screws M3,5 (4x1,5 / 2 x 2,5 / 1 x 4 mm <sup>2</sup> )
<b>Insulated housing</b>	flame-proof VDE 0304 part 3, level FV 0
<b>Fixing</b>	clip fastening 35 mm standard rail DIN EN 50 022
<b>Colour (RAL)</b>	grey 7035 / green 6029
<b>External dimensions</b>	18 x 88(45) x 58 mm
<b>Installation depth</b>	55 mm
<b>Installation position</b>	freely selectable
<b>Weight</b>	ca. 80 g
<b>Wind sensor SW1</b>	
<b>Sensor type</b>	Reed contact pulse generator
<b>Cable length</b>	max. 50 m (at 2x0,25 mm <sup>2</sup> )
<b>Dimensions</b>	ca. 70 x 105 mm



## Connection plan

