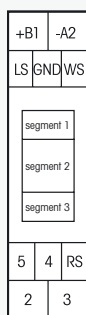


LRW12D-UC



Light-twilight rain wind sensor relay, 4 OptoMOS semiconductor outputs 50 mA/8..230V UC. Standby loss 0.05–0.5 watt only.

Modular device for DIN 60715 TH35 rail mounting. 1 module = 18 mm wide, 58 mm deep. Supply voltage 8 to 230V UC.

The sensor relay LRW12D evaluates the signals from the light sensor LS, the rain sensor RS and the wind sensor WS and sends appropriate control signals to the downstream EGS12Z or EGS12Z2 actuators depending on the setting via the display on the front panel.

The OptoMOS semiconductor outputs switch the voltage applied to the universal voltage input terminal +B1.

A light sensor LS, rain sensor RS and wind sensor WS can be connected to a sensor relay LRW12D. However, only one per sensor.

However, at a wind sensor WS several LRW12D can be connected for controlling different wind speeds. Then the LRW12D must be connected to the same potential +B1/-A2.

When the supply voltage UC (8-253V AC or 10-230V DC) is applied to B1/A2, the LRW12D can be set:

First **segment 1** indicates 'LS' or 'DSR' and **segment 3** may then indicate closed outputs 2, 3, 4 or 5. 'LS' indicates that the LRW12D is set as light sensor relay (factory setting) and 'DSR' shows that it is set as light-twilight relay. In both settings, the signals of connected rain and wind sensors may also be evaluated. A light sensor need not be connected.

Segment 2 indicates alternating events: s = brightness overshoot (sun), m = brightness undershoot (moon). If a release delay runs, the affected output flashes in segment 3.

Select the function for which values require changes by pressing the countersunk buttons **MODE** and **SET**:

LS = light sensor, WS = wind sensor, RS = rain sensor, DSR = light-twilight relay, TST = test and **OFF = switch all functions on/off**.

Subfunctions at LS = light sensor

Display current light sensor measuring value LSM in klux. At LSS set the brightness from 3 to 60klux; this setting immediately triggers the sun signal as a 2 second impulse at output 2 in the event of an overshoot. At LSD set the brightness from 1 to 40klux; this setting triggers the light-twilight signal as a 2-second impulse at output 3 in the event of an undershoot dependent on the set delay time.

Subfunctions at WS = wind sensor

Display current wind sensor measuring value WSM in m/s. At WSS set the wind speed from 2 to 20m/s; this setting immediately triggers the wind signal by closing output 5 in the event of an overshoot. If the wind speed again drops below the set value, the output is released after the set delay time. If the sun signal is applied at this moment, a 2-second impulse is triggered at output 2.

Subfunctions at RS = rain sensor

When it rains, output 4 is closed. After the sensor surface is dried with the help of the heater, output 4 opens on expiry of the set delay time. If the sun signal is applied at this moment, a 2-second impulse is triggered at output 2.

Subfunctions at DSR = light/twilight sensor relay

At DSD set the brightness from 20 to 800 lux; this immediately closes output 3 in the event of an undershoot.

Hysteresis then increments automatically by 2 steps higher.

At DSS set the brightness from 160 to 2000 lux; this opens output 3 in the event of an overshoot on expiry of the set delay time.

Hysteresis then decrements automatically by 2 steps lower.

The **'TST' function** closes the OptoMOS outputs 2, 3, 4 and 5 in succession for testing and the **'OFF' function** switches the LRW12D on or off. After the setting operation the required values can be interlocked.

Changing light compensation

Constant changes between sun and rain clouds would result in sensitive closing and opening of the shade elements. This is prevented by a changing light compensation function.

Sensor function and open circuit monitoring

If the signal from the light sensor or the wind sensor is missing for 24 hours, then an alarm is triggered: The display indicates 'FLS' or 'FWS'. Failure of the wind sensor results in a 2-seconds pulse at output 5 in order to protect any awnings or windows which may be connected here. This pulse is repeated every hour. Rain sensor failure or a line break causes output 4 to close. The display indicates 'FRS' 36 hours later. If several faults occur simultaneously, they are each displayed for one second in succession. When signals are detected again, each alarm stops automatically.

Technical data page H7. Connection example page H9. Housing for operating instructions GBA12 page Z5.

LRW12D-UC

4 OptoMOS

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65,30 €/pc.

Recommended retail prices excluding VAT.