

WIRELESS I/O MODULE RYFL

RYFL is a wireless I/O module which can be used to transfer measurements and control information.

Communicating between the control system and I/O module is done through FLTA base station Modbus connection. Two input signals can be forwarded and two outputs can be controlled with RYFL module.

Inputs can be set to function as 0...10 V inputs or potential free inputs. Outputs can be set to function as relay outputs or 0...10 V outputs. The PWM outputs functions according to the 0...10 V outputs. Additionally, the 24 Vac supply outputs can be used for transmitters, for example.

There is a two-way communication between the I/O modules and the base station. RYFL transmits the changed information to the base station at 6 s interval.

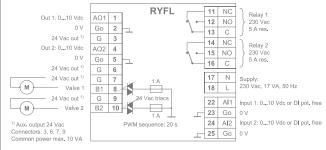
RYFL I/O module needs a FLAN antenna.

NOTE: RYFL must be placed sufficiently close to FLTA base station, because RYFL doesn't support repeaters.

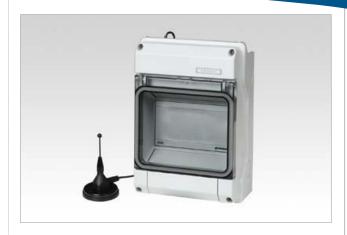
If the connection to base station is lost over an hour, the thermal actuator outputs and relay outputs are controlled to off mode and the 0...10 V outputs to 0 V. The outputs are restored, when the connection is established again.

The module is aware of the network functions and informs the possible network problems and service needs with indicator lights. The same error information is delivered to FLTA base station which can forward the information to the building management system.

Wiring



Important: When the relay outputs are used with 230 Vac voltage, the outputs must be equipped with a fast fuse (max 5 A) that is in accordance with the standard IEC 60127-2.



Technical data

230 Vac, 12 VA Supply or 24 Vac Frequency

868.30 MHz Class 1 Range 500 m in line of sight 20...100 m in buildings

Transmission power +8 dBm Reception sensitivity -109 dBm Modulation **FSK**

2 x 0 10 Vdc or Inputs potential free contact

Outputs 2 x 230 Vac relay, 5 A res. 2 x 0...10 Vdc

2 x 24 Vac, 1 A, seq. approx. 20 s. Supply voltage 4 x 24 Vac, < 10 VA

±0.5 %

Input and output accuracy

Operating conditions

temperature -40...+50 °C

humidity 0...100 % RH (non cond.) Housing PC plastic, IP54 Dimensions (w x h x d) 146 x 238 x 111 mm

Ordering guide:

Model	Product number	Description
RYFL	1191130	wireless I/O module, 230 Vac
RYFL-24	1191131	wireless I/O module, 24 Vac
FLAN	1191040	antenna
FLANJJ-4,5	1191041	antenna extension cable (4.5 m)

Products fulfill the requirements of directives 2004/108/EC, 2006/95/EC, 1999/5/EC and 2000/299/EC and are in accordance with the standards EN61000-6-3 (Emission), EN61000-6-2 (Immunity), EN60730, EN300220-2 and EN301489-3.