

## FLREP REPEATER

FLREP is a bi-directional repeater working on the frequency of 868.30 MHz. It is possible to use up to 8 repeaters for one FLTA base station to extend and boost the ranges of wireless transmitters in difficult environments.

Each FLREP repeater is configured at the commissioning stage with its own repeater identification number (RID) and the base station identification number (MID). The addressing is done wirelessly by using the FLSER configuration tool.

Repeaters can also be connected in series. This allows extending the distance significantly between the transmitters and the FLTA base stations. Repeaters are also aware of the transmission range of each others, so therefore the repeaters can route the signals of transmitters shortest way to the base station.

Repeater is operating by listening the communication from its own base station. If the transmitter does not get the confirmation from the base station, repeater confirms the message to the transmitter instead of the base station and takes the responsibility of the message and its forwarding to the base station.

FLREP repeaters are powered locally by a 12-30Vdc/dc supply.



### Tekniset tiedot:

|                       |  |
|-----------------------|--|
| Supply                | 24Vac/dc<br>(12...30Vac/dc), < 0,1 VA          |
| Frequency             | 868.30 MHz Class1                              |
| Range                 | 500m line in sight<br>20 ... 100m in buildings |
| Transmission power    | +8 dBm   |
| Reception sensitivity | -109 dBm                                       |
| Modulation            | FSK  |
| Ambient circumstances |  |
| temperature           | 0 ... +50°C                                    |
| humidity              | 0...100 % RH<br>(non-condensing)               |
| Housing               | ABS plastics, IP20                             |
| Dimensions w x h x d  | 87 x 86 x 30 mm                                |

### Ordering guide:

| Model      | Product number | Description   |
|------------|----------------|---------------|
| FLREP      | 1191080        | repeater IP20 |
| M 230/12-4 | 1184080        | transformer   |

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: 2001 (Emission) and EN61000-6-2: 2001

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