

funktel FM Repeater

ISM band repeater



- Repeater for range enhancement
- Alarms that are received are relayed at maximum transmitter power
- Cascadable for large installations
- Autonomous infrastructure for alarm forwarding without a mobile phone network
- Integrated beacon function (localisation beacon)
- Power supplied by 230 V plug-in power supply
- Can be parameterised by means of an FM service stick



Providing alerts, when a radio network is not available

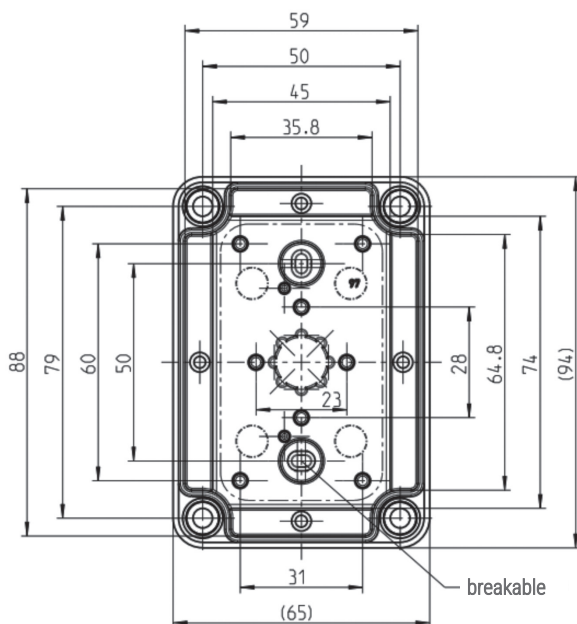
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Scope of supply

- Repeater in a robust housing
- Plug-in power supply

Basic dimensions



Technical data of the FM Repeater

Part No.:	5.010.430.401
Dimension:	65 mm x 94 mm x 57 mm (W/H/D)
Housing:	Plastic housing with transparent cover grey RAL 7035, UL certified (UL 508 & CSA C22.2 No. 14-13, UL 50 & CSA 22.2 No. 94.1-7 & UL 50E & CSA C22.2 No. 94.2-7), DLG (ammonia resistance), DNV (Class: Vessels & offshore installations), Ui=690V AC, Ui=1000V DC, for installations in industrial environments and protected outdoor area liners, M16/M20, (6 lateral)
Protection class:	IP66 Repeater (plug-in power supply IP40)
Mass:	220 g
Impact resistance:	IK08 housing
Temperature range:	-40 °C ... + 60 °C (briefly to + 85° C)
Storage:	-30 °C to 60 °C
Power supply:	5 V plug-on power supply 110 – 240 V/ 50/60 Hz Cable length 1m
Relative humidity:	20 % – 90 % non condensed
Range*:	Typically 30 m inside buildings and a maximum of 200 m outdoors adjustable, 1 to 200 m, depending on environment
Transmission frequency:	ISM band 863 – 870 MHz
Status indicator:	Green, red, LEDs Status by means of flashing sequences
Administration:	ISM Configurator

*) Depending on the structure of the building and variable environmental conditions

Application and operating principle

The FM Repeater has two functions:

1. When operating in Repeater mode, it provides the option of relaying an alarm that has been triggered to a Gateway or a Wallbox via direct or indirect paths (cascaded repeaters). This enables alarm messages also to be relayed to places that do not have mobile phone network coverage. Received ISM alarms are relayed on the protected ISM band at maximum transmitter power.
2. In addition, the Repeater is equipped with a beacon function (localisation) and transmits an identifier at intervals of seconds. As soon as one of the GSM personal emergency signal devices is within range, it stores the identifier and forwards this together with the emergency call message to the alarm control centre in the event of an emergency. The location of the incident/accident is indicated and is forwarded to the rescue services by means of a plain text message.

The FM Beacon may only be commissioned by trained personnel. Comply with the ESD safety measures.



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