

Alarm Receiver U981

Features

- Small size
- User-programmable transmitter addresses
- Low power consumption
- Wide supply voltage range
- Continuous self-check function
- Surface or flush-mounting
- Can be used as wireless output module
- Easy to install



General

This is a small UHF alarm receiver used together with the U971 alarm transmitter as a separate alarm system or in an ordinary Personal Security System (PSS).

The alarm receiver can also be an integrated part in an On Site Paging System (OSP) and the code format is fully compatible.

Applications and Operation

Alarms are received, decoded and indicated via three separate polarized and voltage-free make/brake alarm outputs. The outputs are activated on reception of alarms or pagings.

As default the first output is activated for test alarms and the second for alarms from the transmitter. This output can be used to e.g. activate a lamp or open a door. The third output, function alarm, is activated when an error is detected in receiver or transmitter function.

Both activation time and make/brake function for the outputs are programmed in an internal electronically erasable programmable read only memory (EEPROM). Two address intervals for transmitters can be programmed.

A special user program mode allows a maximum of 16 transmitters to be programmed via the radio channel. This is done by entering the program mode and sending an alarm from the alarm transmitter.

Maximum range for the receiver is about 100 meters at line sight when used together with alarm transmitter U971, and 400 metres when used with a U970 transmitter.

The receiver can be installed either using surface mounting or flush mounting (recessed) techniques.

Technical specifications are listed on the following page.

Technical Specifications

Dimensions:

Cover:	80 x 80 x 48 mm
Circuit board:	ø 52 x 30 mm
Weight:	125 g
Case:	Polyamide acryl (PMMA) plastic, white and gray
Operating temp.range:	-10 to +55 °C
Supply voltage:	7 to 24 Vac or dc
Current consumption:	The following data is valid for supply voltages below 10 Vac and 15 Vdc
Normal mode:	6 mA or 20 mA max with all outputs active
Frequency range:	425-475 MHz
FSK/FM modulation:	3,0 kHz deviation at 25 and 20 kHz channel spacing 1,5 kHz deviation at 12,5 kHz channel spacing
Antenna:	Integral
Spurious emissions:	< 2 nW up to 1 GHz < 20 nW over 1 GHz
Alarm outputs:	
Max load:	Optocoupler 100 mA
Isolation:	5 kV rms
EMC, checked according to:	IEC 801 - 2 1991 IEC 801 - 4 1988 IEC 801 - 5 1991

Accessories

Power supply