



Basic requirements for the owners

Warning

Do not make changes on the devices.

Violation will invalidate interference emission certification (FCC, RSS, CE), and the manufacturer's warranty.

This device complies with Part 15 of the FCC rules. Operation is subject to the following two conditions:

- (1) this device may not cause harmful interference, and
- (2) this device must accept any interference received,
including interference that may cause undesired operation.

Note

This equipment has been tested and found to comply with the limits for a Class B digital device, *pursant* to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures.

- Reorient or relocate the receiving antenna
- Increase the separation between the equipment and receiver
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected
- Consult the dealer

Sesam 500 – Door opening system



Sesam 501



Sesam 503



Sesam 512



Sesam 599



Receiver



Receiver Plug-in model

SESAM 500 has been developed to meet the markets requirements for an attractively priced, easily operated and powerful door opening system.

SESAM 500 is flexible and simple in operation, and it is based on modern digital radio technology.

The transmitter is available in four versions.

SESAM 501 is a small hand-held transmitter with one function.

SESAM 503 is technically identical to SESAM 501, but has three functions.

SESAM 512 is a hand-held or vehicle-mounted transmitter with facilities for communication with up to twelve receivers.

SESAM 599 has the same facilities as SESAM 512, but can communicate with up to 999 receivers.

The SESAM 599 is also provided with a display.

The system includes receivers with one or three output relays.



TECHNICAL DESCRIPTION SESAM 500

Type of equipment: Transmitters Sesam 501, Sesam 503, Sesam 512, Sesam 599.
Receivers Sesam R1 - R5

Characteristics of the equipment

Frequency band: ISM-band class 1, 433,92 MHz
Type of modulation: ASK, 1K20A1D
Output power: 74.0 dB μ V/m@ 3m test distance
Operating temperature range: -25°C – +55°C

Sesam 501

Number of functions: 1
Power source: 9V battery
Current: 25 mA
Size: 100 x 60 x 25 mm

Sesam 503

Number of functions: 3
Power source: 9V battery
Current: 25 mA
Size: 100 x 60 x 25 mm

Sesam 512

Number of functions: 3
Number of codes: 12
Power source: 9V battery or external source
Current: 25 mA
Size: 142 x 68 x 26 mm

Sesam 599

Number of functions: 3
Number of codes: 12
Power source: 9V battery or external source
Current: 25 mA
Size: 142 x 68 x 26 mm

Sesam R1 – R5

Number of functions: 1 or 3
Sensitivity: better than -95 dBm
Relay load: max 400 VAC, 6 A, 1500 W, resistive load
Power source: 230 VAC, or 24 VAC or 12 – 24 VDC
Size: 152 x 102 x 42 mm or plug-in model 80 x 72 x 35 mm

We reserve the right to alter technical data without notice

DOOR OPENING SYSTEM SESAM 500**(1 - 3-functions)****TRANSMITTER 501:**

The transmitter operates on a 9V alkaline battery. Pushbutton 1 = OPEN - CLOSE

TRANSMITTER 503:

The transmitter operates on a 9V alkaline battery. Pushbutton 1 = OPEN, button 2 = CLOSE, button 3 = STOP

TRANSMITTER 512 and 599:

The transmitter operates on a 9V alkaline battery or by a cassette. The cassette is supplied with 12-24V DC, where the brown cable is connected to + and the blue cable to ground. The voltage supply is connected via the vehicle's main switch, which means that the transmitter is dead at charging of the vehicle.

RECEIVER:

Incoming voltage (from after mainswitch) is connected to plinth P1 if it is 230 VAC alternately to plinth P5 if it is 12-24 VAC or DC (independently of polarity). On the printed circuit board there is a diode lamp LED4 for indication of voltage supply (+5V). Furthermore there is a diode lamp (LED1-3) for every relayoutput. The aerial is assembled on the aerial contact of the box and should be angled slightly outwards. Max. load of the relay is 250 VAC/6A. Nominal voltage see plate on the receiver. Power consumption 1,5VA/1,5W. Recommended cable Ø 5-11 mm. Temp. -25 - +55°C. Installation category III. **ATTENTION! At service of the door make sure that the receiver is disconnected.**

CODING:

The receiver and the transmitter have to be coded by the electrician.

The transmitter and receiver are provided with a ten pole dipswitch (512 and 599 eight pole) which has three positions as figur below:

Switch nr:	1	2	3	4	5	6	7	8	9	10
upper +	Area code. The area code				486	162	54	18	6	2
middle 0	has to be identical for			729	243	81	27	9	3	1
lower -	transmitter and receiver.			-	-	-	-	-	-	-

SESAM 501: The transmitter and the receiver are coded identically on the dipswitches respectively SW1 (see fig 1, 3).

SESAM 503: The transmitter and the receiver are coded identically on the dipswitches respectively SW1 (see fig 1, 4).

SESAM 512: The transmitter is doorcoded with pushbutton 1-12 respectively and the receiver will be doorcoded as the 12 lowest doorcodes, the switches 8-10 (see above) if the doors even has to be operate with Sesam 599. The switches 4-7 in "-"-position in both transmitter and receiver (see fig 2 and 4), observe that switch 8 in the transmitter also must be in "-"-position.

SESAM 599: The transmitter will have the doorcode (1-999), which is pressed on each occasion, while the receiver has to be doorcoded according to the above tabell see even fig 4.

For example if you have to set doorcode 767 set switch 4 in middle position (729), switch 7 in middle position (27), switch 8 in middle position (9) and switch 10 in upper position (2) all other switches in the lower position (-).

The switches 1, 2, 3 are used for areacode and switch 4 in upper position are not to be used This is valid for all system.

FIG 1 SESAM 501
and **SESAM 503**

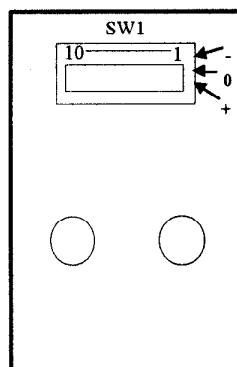


FIG 2 SESAM 512
and **SESAM 599**

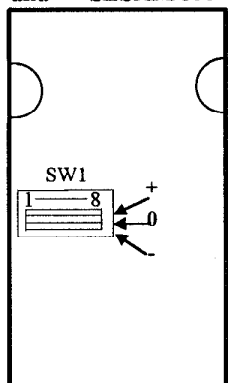


FIG 3 RECEIVER
1 Function

FIG 4 RECEIVER
3-Functions

PLUG IN

DOOR OPENING SYSTEM SESAM 500

(1 - 3-functions)

TRANSMITTER 501:

The transmitter operates on a 9V alkaline battery. Pushbutton 1 = OPEN - CLOSE

TRANSMITTER 503:

The transmitter operates on a 9V alkaline battery. Pushbutton 1 = OPEN, button 2 = CLOSE, button 3 = STOP

TRANSMITTER 512 and 599:

The transmitter operates on a 9V alkaline battery or by a cassette. The cassette is supplied with 12-24V DC, where the brown cable is connected to + and the blue cable to ground. The voltage supply is connected via the vehicle's main switch, which means that the transmitter is dead at charging of the vehicle.

RECEIVER:

Incoming voltage 12-24 VAC or DC (from after mainswitch) is connected to pin 5 and 6 (independently of polarity). On the printed circuit board there is a diode lamp LED4 for indication of voltage supply (+5V). Furthermore there is a diode lamp (LED1-3) for every relayoutput. The aerial is assembled on the aerial contact and should be angled slightly outwards. Max. load of the relay is 250 VAC/6A. Nominal voltage see plate on the receiver. Power consumption 1,5VA/1,5W. Temp. -25 - +55°C. Installation category III.

ATTENTION! At service of the door make sure that the receiver is disconnected.

CODING:

The receiver and the transmitter have to be coded by the electrician.

The transmitter and receiver are provided with a ten pole dipswitch (512 and 599 eight pole) which has three positions as figur below:

Switch nr:		1	2	3	4	5	6	7	8	9	10
upper	+	Area code. The area code has to be identical for transmitter and receiver.				486	162	54	18	6	2
middle	0				729	243	81	27	9	3	1
lower	-				-	-	-	-	-	-	-

SESAM 501: The transmitter and the receiver are coded identically on the dipswitches respectively SW1 (see fig 1, 3).

SESAM 503: The transmitter and the receiver are coded identically on the dipswitches respectively SW1 (see fig 1, 4).

SESAM 512: The transmitter is doorcoded with pushbutton 1-12 respectively and the receiver will be doorcoded as the 12 lowest doorcodes, the switches 8-10 (see above) if the doors even has to be operate with Sesam 599. The switches 4-7 in "0" position in both transmitter and receiver (see fig 2 and 4), observe that switch 8 in the transmitter also must be in "0" position.

SESAM 599: The transmitter will have the doorcode (1-999), which is pressed on each occasion, while the receiver has to be doorcoded according to the above tabell see even fig 4.

For example if you have to set doorcode 767 set switch 4 in middle position (729), switch 7 in middle position (27), switch 8 in middle position (9) and switch 10 in upper position (2) all other switches in the lower position (-).

The switches 1, 2, 3 are used for areacode and switch 4 in upper position are not to be used This is valid for all system.

FIG 1 SESAM 501

FIG 2 SESAM 512

FIG 3 RECEIVER

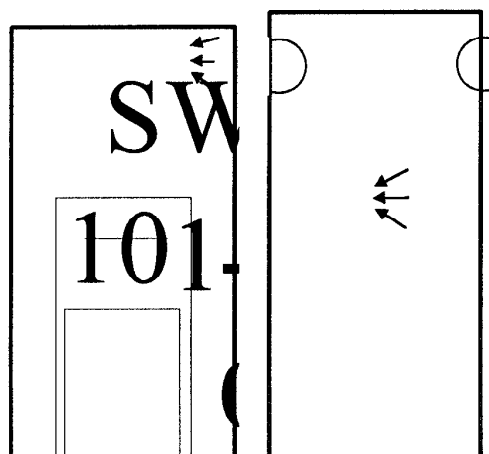
FIG 4 RECEIVER

and SESAM 503

and SESAM 599

PLUG IN 1 Function

PLUG IN 3 Functions



HH 990310

CONNECTING INSTRUCTIONS

Draw. no: 92 4610-000 Ver A

Sesam 500

Range of application.

Sesam 500 is a industrial door opening system to open unlocked doors. It is also used for very simple on/off applications, where there are no personnel security demands, for example switching lights on/off.

Security.

Sesam 500 is not a security system.

Sesam 500 is not designed for applications on a high security level.

Sesam 500 is not allowed to be used in applications, where there are personnel security demands.
