



→ Welcome to the remote future

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# Sesam 800

Robust radio remote control for industrial and mobile applications





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Åkerströms' robust solutions for industrial and mobile radio remote control are reference for professional users worldwide. The experience and expertise we have developed for more than a century is in reality the difference between uptime and downtime and between incidents and accidents.

Furthermore, we know that collaborations in all their forms are the key to breakthrough innovations. We offer this to every customer, regardless of size, industry or area of use, and are a bridge to long and loyal relationships.

This brochure contains information about our radio remote control for industrial and mobile applications: Sesam



**Sesam 800** is our product family for radio remote control of industrial applications such as opening systems for doors, booms and gates, switching on and off fans and floodlights. The Sesam 800 series is developed to provide flexibility, reliability, ruggedness and ease-of-use required for applications in demanding industrial environments.

### Robust and durable

Sesam 800 is a complete family of transmitters and receivers. The transmitters are very easy to use. Their robust and durable design is equipped with a rubber edge guard that provides shock resistance. They are class IP67, and can be exposed to dust, humidity, and water without interruption. The transmitters have separate, easy-to-push buttons of high quality that can manage more than 1 million button presses.

### Feedback indicator and unique codes

The Sesam 800 system uses the 869 MHz frequency band. Communication between the transmitter and receiver is two-way, which allows a feedback indicator on the transmitter to show when a relay is active. The system uses 16.7 million unique codes. Checksums ensure error-free message transmission. For applications with even higher security requirements, the system can be configured for encrypted transmissions.

### Receiver with PIN code

The receiver is available in several models: a wall-mounted unit with display, a wall-mounted unit without display, and two smaller units for DIN mounting.

The display unit makes it easy to add or remove new transmitters and system users. It also has a removable memory card for operationally critical systems, which allows each receiver to be used with a large number of transmitters. Settings in the receiver may be password-protected with a four-digit code, restricting its functionality to authorised users. Settings and access are controlled easily using the keypad on the display receiver.

### Limited or extended range

The range of the system can be limited to avoid undesirable long distance operation. For desired function at long distances i.e. to open, close booms/gates, switch on/off lighting or other function the range can be extended up to double - using the Sesam 800 Range Extender.

### Configuration tools

The Sesam MC manager is a configuration tool that assists in administration of PIN codes and simplifies installation, configuration, testing and maintenance of large-scale Sesam 800 door installations.

## SESAM 800 Large 99



### SESAM 800

Sesam 800 is our product family for radio remote control of industrial applications.



## SESAM

### Sesam 800 – Transmitters

The Sesam 800 transmitters are highly robust and easy to use. They are available in six models. Sesam 800 Large 99 is our most advanced transmitter. With the capability to control up to 1,000 receivers, this system is perfect for large installations. The Large 99 transmitter supports group ID coding and can be used with Sesam MC Manager, our proprietary configuration tool that simplifies the installation, configuration, testing and maintenance of large-scale installations. The transmitters have separate, easy-to-push buttons of high quality that can manage more than 1 million button presses. They come equipped with a shock-protective frame.

#### SESAM 800 Keyring

Number of functions/buttons: 3	Output power: 5 mW
Supply voltage: CR2025 X2, 6V (2x3V)	Current consumption: 15 mA during transmission
Temperature range: -25°C to +55°C	Protection class: IP65
Frequency: 869,8 MHz GMSK	Size: 67 x 44 x 13 mm
Response time: 50 ms (typ.)	Weight: 30 g
Art. No. Sesam 800 Keyring: 940332-000	



#### SESAM 800 Small 3

Number of functions/buttons: 3	Output power: 5 mW
Supply voltage: 3V (2xAAA)	Current consumption: 15 mA during transmission
Temperature range: -25°C to +55°C	Protection class: IP67
Frequency: 869,8 MHz GMSK	Size: 75 x 46 x 22 mm
Response time: 50 ms (typ.)	Weight: 80 g (incl. batteries)
Art. No. Sesam 800 Small 3: 940334-000	



## SESAM 800 Small 6

Number of functions/buttons:  
6

Output power:  
5 mW

Supply voltage:  
3V (2xAAA)

Current consumption:  
15 mA during transmission

Temperature range:  
-25°C to +55°C

Protection class:  
IP67

Frequency:  
869,8 MHz GMSK

Size:  
75 x 46 x 22 mm

Response time:  
50 ms (typ.)

Weight:  
80 g (incl. batteries)

Art. No. Sesam 800 Small 6:  
944574-000



## SESAM 800 Medium

Number of functions/buttons:  
6

Output power:  
5 mW

Supply voltage:  
3V (2xAAA)

Current consumption:  
15 mA during transmission

Temperature range:  
-25°C to +55°C

Protection class:  
IP67

Frequency:  
869,8 MHz GMSK

Size:  
100 x 60 x 25 mm

Response time:  
50 ms (typ.)

Weight:  
130 g (incl. batteries)

Art. No. Sesam 800 Medium 6:  
940338-000





## SESAM

### Sesam 800 – Transmitters

The Sesam 800 transmitters are highly robust and easy to use. They are available in six models. Sesam 800 Large 99 is our most advanced transmitter. With the capability to control up to 1,000 receivers, this system is perfect for large installations. The Large 99 transmitter supports group ID coding and can be used with Sesam MC Manager, our proprietary configuration tool that simplifies the installation, configuration, testing and maintenance of large-scale installations. The transmitters have separate, easy-to-push buttons of high quality that can manage more than 1 million button presses. They come equipped with a shock-protective frame.

#### SESAM 800 Large 15

Number of functions/buttons: 15	Output power: 5 mW
Supply voltage: 3V (2xAA)	Current consumption: 15 mA during transmission
Temperature range: -25°C to +55°C	Protection class: IP67
Frequency: 869,8 MHz GMSK	Size: 120 x 75 x 30 mm
Response time: 50 ms (typ.)	Weight: 200 g (incl. batteries)
Sesam 800 Large 15: 940340-000	



#### SESAM 800 Large 99

Number of functions: 15	Output power: 5 mW
Number of controlled units: 1 000	Current consumption: 30 mA during transmission
Supply voltage: 3V (2xAA)	Protection class: IP67
Temperature range: -25°C to +55°C	Size: 120 x 75 x 30 mm
Frequency: 869,8 MHz GMSK	Weight: 200 g (incl. batteries)
Response time: 50 ms (typ.)	Display type: LCD, 1 row 3 characters
Art. No. Sesam 800 Large 99: 940341-000	





Encrypted authentication  
for increased security

Range limitation function  
for extra security

Water and dust proof  
design (IP67)

Fast response time

Shock-resistant

Opens up to 999 doors/  
gates

Pin code lock

Group ID increases the  
flexibility and simplifies  
the maintenance on  
large installations

Highly durable long-life  
push buttons, over  
1 000 000 cycles  
momentary





## SESAM

### Sesam 800 — Receivers

The Sesam 800 receivers are available in four models: wall-mounted unit with LCD display, wall-mounted unit without LCD display, and two smaller units for DIN mounting. The LCD character display makes it easy to add or remove new transmitters and system users. It also has a removable memory card for operationally critical systems, which allows each receiver to be used with a large number of transmitters. Settings in the receiver may be password-protected with a four-digit code, restricting its functionality to authorised users. Settings and access are controlled easily using the keypad on the display receiver.

#### SESAM 800 RX

**Number of relays:**  
3 (SPDT)

**Response time:**  
50 ms (typ.)

**Memory capacity:**  
Max 100 transmitters

**Temperature range:**  
-25°C to +70°C

**Frequency:**  
869,8 MHz GMSK

**Protection class:**  
IP65

**Supply voltage:**  
12-24 V AC/DC eller 230 V AC

**Size:**  
120 x 90 x 51 mm

**Current consumption:**  
60mA (+30mA when the relay is active) at 12V DC

**Weight:**  
450 g

**Relay contact rating:**  
NO/NC 8A/3A 230V AC (resistive load)

**Other:**  
16.7 million unique codes, CRC-16 hashcheck, configurable security mode with encrypted authentication

**Output power:**  
Max 5mW

**Art. No.**

Sesam 800 RX 230 V:

940156-000

Sesam 800 RX 12-24 V AC/DC:

941244-000



#### SESAM 800 RXD

**Number of relays:**  
3 (SPDT)

**Response time:**  
50 ms (typ.)

**Memory capacity:**  
500 transmitters or groups of transmitters (with L99) max.

**Temperature range:**  
-25°C to +70°C

**Frequency:**  
869,8 MHz GMSK

**Protection class:**  
IP65

**Supply voltage:**  
12-24 V AC/DC eller 230 V AC

**Size:**  
120 x 90 x 51 mm

**Current consumption:**  
60mA (+30mA when the relay is active) at 12V DC

**Weight:**  
450 g

**Relay contact rating:**  
NO/NC 8A/3A 230V AC (resistive load)

**Other:**  
16.7 million unique codes, CRC-16 hashcheck, configurable security mode with encrypted authentication

**Output power:**  
Max 5mW

**Art. No.**

Sesam 800 RXD 230 V:

940224-000

Sesam 800 RXD 12-24 V AC/DC:

941243-000



## SESAM 800 RX DIN

**Number of relays:**  
1 alt 3

**Memory capacity:**  
Max 100 transmitters

**Frequency:**  
869.8 MHz GMSK

**Supply voltage:**  
12-24 V AC/DC

**Current consumption:**  
60mA (+30mA when the relay is active) at 12V DC

**Relay contact rating:**  
NO/NC 8 A/3 A 230 V AC  
(resistive load)

**Output power:**  
Max 5mW

**Response time:**  
50 ms (typ.)

**Temperature range:**  
-25°C to +70°C

**Size:**  
85 x 75 x 30 mm

**Weight:**  
180 g

**Other:**  
16.7 million unique codes,  
CRC-16 hashcheck,  
configurable security  
mode with encrypted  
authentication

**Art. No.**

S800 RX DIN 1 RELAY  
(incl wire antenna): 953603-000

S800 RX DIN 3 RELAYS  
(incl antenna BNC socket): 942216-000





## SESAM

### SESAM 800 – Range Extender

Extend the range up to double (depending on placement and surroundings). Example of usage areas: opening/closing booms/gates in airfields, major industries, irrigation facilities, on/off heat/electricity in holiday villages. Easy installation and compatible with all units within the Sesam 800 industrial range.

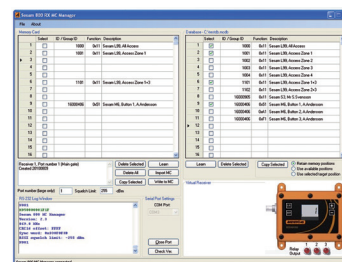
#### SESAM 800 Range Extender

Art. No.  
Sesam 800 Range Extender(230V): 955935-000



### SESAM 800 – Configuration tool

The Large 99 transmitter has support for group ID coding. Transmitters using the same group ID are considered identical. The RXD receiver can store up to 500 different IDs. This capability and our MC Manager software simplify installation, testing and maintenance of large-scale installations. Through the software, all receiver configurations can be centrally managed and easily copied to the receivers through their memory cards. This allows for full control of Sesam receivers and transmitters in a single system. Changes are also easily made through the software.



#### SESAM 800 MC Manager

The Sesam MC manager is a configuration tool that assists in administration of PIN codes. The software simplifies the installation, configuration, testing and maintenance of large-scale Sesam 800 door installations. Through the software, all receiver configurations can be centrally managed and easily copied to the receivers through their memory cards. This allows for full control of Sesam receivers and transmitters in a single system. Changes are easily done through the software.

Art. No.  
Sesam 800 MC Manager: 946422-000





SESAM 800 RANGE EXTENDER  
Extended range up to double  
(Depending on placement and surroundings)









## Sesam – Accessories

We offer various accessories such as lanyards and wall and vehicle mounting units. Cassette holders for vehicle mounting are available for the Sesam 800 Large and Sesam 6099 transmitters. The cassette holders have an external power input of 12–24V and an antenna connector (FME) for poor transmission conditions. For special conditions, external antenna kits including cable are available for the receivers.



### Cassette holder

**CASSETTE HOLDER  
INCL. ELECTRONICS**  
Sesam 800 Large 15/99  
Art. No.: 943015-000

**CASSETTE HOLDER  
EXCL. ELECTRONICS**  
Sesam 800 Large 15/99  
Art. No.: 943015-003



### Kassett

**KASSETT  
INKL. ELEKTRONIK**  
Sesam 6099  
Art. No.: 924325-000



### Holder for vehicle or wall

**HOLDER MEDIUM**  
Sesam 800 Medium  
Art. No.: 947219-001



### Holder for vehicle or wall

**HOLDER SMALL**  
Sesam 800 Small 3/6  
Art. No.: 947220-001

**HOLDER KEYRING**  
Sesam 800 Keyring  
Art. No.: 947568-00



### Lanyard

**LANYARD WITH SNAP-  
HOOK AND QUICK CLIP,  
100 CM**  
Art. No.: 941258-000



### Wall mount

**WALL MOUNT LARGE**  
Sesam 800 Large 15/99  
Art. No.: 947147-000



#### SESAM 800 CASSETTE HOLDER

The cassette for vehicle installation has an external power input of 12–24V and an antenna connector (FME) for an optional antenna during poor transmission conditions. The cassette holder is also available without electronic components.