

Datasheet **EFB-ACLx-USB** 

# Radio Receiver EFB-ACLx-USB for Access Systems

#### **Features**

- Manage up to 100 or 1,000 wireless hand-held transmitters
- Compatible hand-held radio transmitters EFS-xRP / EFS-xMP / EFS-12MP or EFS-xM / EFS-12HCS
- Keelog encryption of radio transmission and assignment of a separate Keelog key possible
- Hand-held radio transmitter cannot be copied/duplicated by third parties
- Password protection and seal (only for version in PS surface-mounted housing)
- Configuration via USB with a computer (Microsoft Windows 7 or higher)
- Available for frequency band 433 MHz (ISM) or 868 MHz (SRD)

## **Application Expamples**

- Barrier systems in car parks
- Gate systems for access roads to company premises / property
- Bollard systems for car parks
- Door/gate opener for underground car parks

#### Description

The EFB-ACLx-USB series radio receivers are designed for access control systems. Due to the switching outputs as potential-free contacts, the radio receiver can be connected independently or in parallel to other access systems to most common gate or barrier control systems.

The receiver can be configured quickly and easily using a software and connecting it to a computer via the USB interface. Radio hand-held transmitters can be managed via a list. So, new hand-held transmitters can be easily added and lost hand-held transmitters can be blocked or deleted. Manipulation of the authorisation list can be prevented by activating a password protection.

The receivers in the EFB-ACLx-USB series are available in different versions with up to 8 outputs (relay normally open contacts 250V/6A AC).

## Function

Various hand-held transmitters from the series EFS-xRP and EFS-xMP can be assigned to the radio receiver via authorisation management.

It is possible to create authorisation groups and assign one or more buttons of a radio remote control to each relay contact. In turn, one or more relay contacts can be assigned to each button. This enables for expample one radio receiver to be used to operate several adjacent access points (barriers, gates, etc.) with different authorisations.

Overview of the main functions:

- · Outputs as pulse switching
- Definition of the pulse time for each output separately
- Management of up to 100 or 1,000 radio hand-held transmitters via computer software
- Deactivating, reactivating or deleting the authorisation of individual hand-held transmitters
- Description possible for each hand-held transmitter in the authorisation list (e.g. name)
- No duplication of radio hand-held transmitters by third parties without knowledge of the individual master key possible
- Functional configuration (authorisations, pulse times, ...) also possible without a master key (e.g. by service technicians with limited authorisations)









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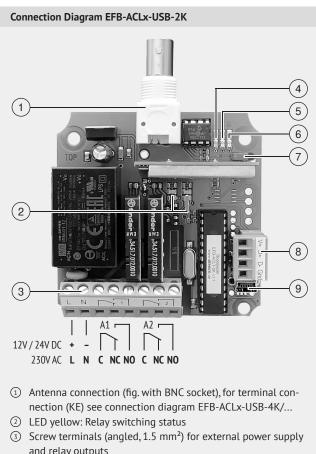
| Technical Data          |   |  |  |
|-------------------------|---|--|--|
| Frequency               | 433,92 MHz or 868,3 MHz (not changeable)  |  |  |
| Outputs                 | 2K: potential-free relay contacts (CO) 250V/6A AC 4/6/8K: potential-free relay contacts (NO) 250V/6A AC |  |  |
| Coding method           | Rolling code (Keeloq)   |  |  |
| Configuration           | free via computer software  |  |  |
| Configuration software  | EFB-ACL-USB-Config (version depends on device firmware)   |  |  |
| System requirements     | Microsoft Windows 7 or higher   |  |  |
| Configuration interface | Mini USB socket type B  |  |  |
| Antenna connection      | For variants see table "Order Code"   |  |  |
| Electrical connections  | Screw terminals 1,5 qmm $\bigcirc$ 1,5 mm <sup>2</sup> $\bigcirc$ 7 mm $\bigcirc$ 0,5 0,6 Nm            |  |  |
| Power supply            | 5V DC via USB (only with EFB-ACLx-USB-2K) /<br>12V DC / 24V DC / 230V AC                                |  |  |
| Current consumption     | see adjacent table  |  |  |
| Mounting type           | 35mm mounting rail / surface-mounted  |  |  |
| Protection class        | see table on next page  |  |  |
| Operating temperature   | -25+70°C  |  |  |

## **Safety Instructions**

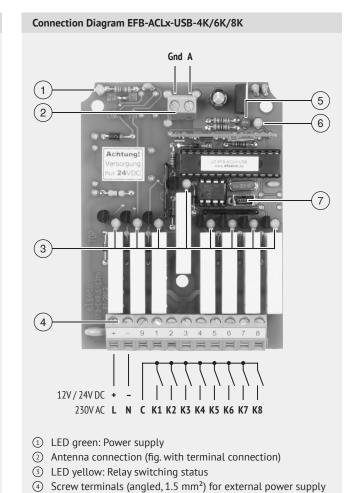


- These radio receivers are not authorised for use in safety-relevant systems! (no SIL / PL certification)
- · Work on the radio receiver may only be carried out when it is de-energised!

| Current Consumption (mA)           |     |     |      |  |  |  |
|------------------------------------|-----|-----|------|--|--|--|
|                                    | 12V | 24V | 230V |  |  |  |
| Standby                            | 45  | 45  | 15   |  |  |  |
| 2K (Operation)                     | 77  | 61  | 17   |  |  |  |
| 4K (Operation)                     | 109 | 77  | 19   |  |  |  |
| <b>6K</b> (Operation) 141 93 21    |     |     |      |  |  |  |
| 8K (Operation)                     | 173 | 109 | 22   |  |  |  |
| Operation = All relays are active! |     |     |      |  |  |  |



- and relay outputs
- 4 LED green: Power supply
- ⑤ LED yellow: USB connection
- 6 LED red: Valid radio reception
- ① Jumper (change only for firmware update)
- 8 Plug-in screw terminal (1.5 mm²): USB interface (opt.)
- USB socket: Configuration interface



and relay outputs

LED red: Valid radio reception

① USB socket: Configuration interface

LED yellow: USB connection

(5)



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| Protection Class to DIN EN 60529 |      |      |      |      |      |      |  |
|----------------------------------|------|------|------|------|------|------|--|
|                                  | KL   | Al   | TNC  | SA   | BNC  | BNCS |  |
| PS94                             | IP66 | IP66 | IP66 | IP40 | IP40 | -    |  |
| PS130                            | IP66 | IP66 | IP66 | IP40 | IP40 | -    |  |
| UM72                             | IP00 | IP00 | IP00 | -    | -    | IP00 |  |

| Dimensions (H x W x D) |                 |                       |  |  |
|------------------------|-----------------|-----------------------|--|--|
|                        | EFB-ACLx-USB-2K | EFB-ACLx-USB-4K/6K/8K |  |  |
| PS94                   | 94 x 94 x 57 mm | -                     |  |  |
| PS130                  | -               | 130 x 94 x 57 mm      |  |  |
| UM72                   | 90 x 74 x 70 mm | 90 x 97 x 70 mm       |  |  |

## Installation Instructions



· Installation/commissioning may only be carried out by specialist companies or appropriately qualified personnel!

## **Operating Instructions**



- · The units may only be used as described in the manual.
- · Only undamaged units may be used under the specified environmental conditions.

## **Order Code**



Please note the color code in this table!

Color-coded features can only be combined with device versions that have the same color code.

