



## 1 Series

Contactless SmartCard Reader  
Mifare and Desfire Cards

The BSR 1-Series of contactless smartcard readers are designed to work with all access control panels. An outdoor rated product that is feature rich and highly customisable. Some key features of the 1-Series are:

- **Mifare / DESfire card compatibility**
- **Setup Card function for custom function**
- **Multi output device including Wiegand and RS485 - custom formats available**
- **Encrypted output available**
- **Snap-on colour covers for decor matching**

## Specifications

Card Type	Mifare 13.56MHz / typeA,B / sector or CSN DESfire 13.56MHz
Output Protocol	Wiegand: CSN: 32 or 34bit Sector: 26bit standard or customer format RS485 - encryption available (AES128bit) PAC propriety serial output
Power	12Vdc / 5Vdc
Current	105-170mA (model dependant)
Operating temp	-10degC to +65degC
relative humidity	90% max, operating non-condensing
dimensions	90x90x18mm
Mounting	Standard UK backbox - 60mm centres
Status LED	Red / Green bicolour LED
Audible tone	Buzzer
Colour	Charcoal or Ivory standard - custom available
IP rating	IP 66
Certifications	FCC, CE, C-Tick



### Models

#### BSR-1

Mifare contactless  
smartcard reader

#### BSR-1

Desfire contactless  
smartcard reader

#### BSR-1PAC

Mifare contactless  
smartcard reader

# Conformance Information

## CE Marking

This device complies with the requirements of the directives 89/336/EEG, 73/23/EEG and 1999/5/EEG.

## FCC ID: ZFZBAR-1

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.

Any changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

## NOTE:

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant 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 and can radiate radio frequency energy and, if not installed and used 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 or an experienced radio/TV technician for help.