



READER A-4-D – DIRECT 433MHz READER/ RECEIVER

Readers are used as external readers for access controllers. The Reader A-4-D only works with Jantar controllers. Jantar remote controllers C4B and REMO are compatible with the Reader A-4-D. In combination the Reader A-4-D with remote controller REMO, you need controller version V9. V7 controllers don't support this combination. The device signals normal operation with lit red LED.

Direct (D):

Reader has no processing unit. Signal will be decoded by the controller. Card support depends on controller, to which Reader is connected.

TECHNICAL DATA

READER A-4-D	
READER A-4-D reading frequency	433MHz
READER A-4-D reading distance	Up to 50m
READER A-4-D current consumption	60mA
Operating voltage	9V to 14V DC
Operating temperature	From -20°C to 70°C
Protection	IP65
Inputs	Controlling buzzer Controlling green LED
Distance to controller	30m
Cabel	Cable through or on the wall – 3m
Dimensions (mm)	120x96x15 (WxHxD)

CONNECTION CABLE

Wire-Color	Description	Specification
1 – red	9-14V DC	Power supply
2 – gray/black	GND	Ground
3 – green	Data	Output
4 – white	Not connected	Not connected
5 – yellow	Buzzer input	Active = GND
6 – orange	LED input	Active = GND

Voltage drops and cable signal interferences

When you connect the reader, use cable with a diameter of at least 0.22mm². If the cable length exceeds 25m, use one twisted pair of UTP cables for the positive (+) pole and one for the negative (-) pole.

To achieve cable distances of over 200m, use one twisted pair (two wires) of UTP cable, for each data line. From each twisted pair, use one wire for the Reader's negative pole (connect them to the readers and controllers GND). In this way you create a shield over the data wires, which remove's interferences between them.

Take into consideration that a 0.22mm² cable has a resistance of approximately 9 ohm per 100m. The power supply at the end of cable should be a minimum of 9V. If you are using el. strike, it is highly recommended that the voltage drop is calculated.

At greater distances, a thicker cable of 0.5mm² or more should be used wherever possible.

If the load is, for example, 0.5A (with el. strike) then, on the 0.22mm² cable voltage drop will be 4.5V at 100m. For the device with 60mA consumption, the voltage drop is 0.5V.

Installation of Reader A

A special holder, provided with the Reader A, is needed for attachment to the wall. Two screws are enclosed in the box. After the holder has been affixed, put the Reader A onto the holder and press – after you hear the click, it is fixed.

If you want to remove the Reader A from the wall, put the screwdriver under the device's casing (as close as possible to the holder's attachment points) and turn it gently.

If you will install two Readers A-4-D closer than 50m from the place where the remote controller will be used, than both controllers can receive the code. Dont install Reader A-4-D directly on metal.

Installation holder for A box.



Inputs, outputs and environment

Inputs:

The Readers inputs are realized with opto-isolators connected to a 5V supply in the device. The input is active when pulled to Ground with an open collector transistor (device must be connected to a common ground) or mechanical switch, connecting the input pin to the Ground pin.

Outputs:

The Readers data outputs have pull up resistors to 5V. Take this into consideration when you connect the reader to the controller from other producer!

Environment:

Device has IP65 protection, but you must assure good cable joints, protected against moisture, otherwise corrosion may damage the device. Damage in such cases is not covered by the warranty.

ORDERING CODES

READER [box]-[card]-[protocol]

Box: **A**
 Card: **4** - reading frequency 433 MHz (RF Transmitters)
 Protocol: **D** - Direct

Code	Specifications
READER A-4-D	433MHz Direct reader in A box

OTHER

Please read through our warranty and disclaimer statements.

Connection scheme and additional support for the use of this product can be found on:
<http://www.jantar.si/forum/en>

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