

## Reader head KRBox \_5k

This reader head is used to connect to the WBox\_R control unit or to access systems of other manufacturers with the standard WIEGAND interface.



### Versions of reader head KRBox\_5k

WIST02A10.XX

.01	<b>KRBox</b>	125 kHz technology
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### Description of wires

Color	Meaning
<b>Red</b>	Power supply +12V DC
<b>Blue</b>	0 V
<b>Green</b>	SCLK/DATA0
<b>White</b>	SDATA/DATA1
<b>Pink</b>	Green LED
<b>Brown</b>	Red LED
<b>Grey</b>	Buzzer

### Description of DIP switch

ON state	Meaning
<b>1</b>	Boot Loader
<b>2</b>	Address setting - 2. head (OFF state – 1. reader head)
<b>3</b>	Unused – reserved for future use
<b>4</b>	Unused – reserved for future use
<b>5</b>	Communication mode WIEGAND (OFF state – communication mode I2C)
<b>6</b>	Unused – reserved for future use



## Technical parameters

<b>Dimensions</b>	116mm x 75 mm x1 7.3 mm
<b>Weight</b>	120g
<b>Voltage/Power supply</b>	9-30 V DC
<b>Max. consumption</b>	70 mA
<b>RFID technology</b>	EM Marin 125 kHz, HITAG1,HITAG2, MIFARE, LEGIC
<b>Keyboard</b>	12 keys
<b>Reading coverage</b>	Approx 10 cm
<b>Communication interface</b>	I2C, WIEGAND 32 - defined when ordering
<b>Signalization</b>	2x LED, 1x Buzzer
<b>Range of working temperatures</b>	-25, +50°C
<b>IP coverage</b>	IP 65

## Running test and controls

After connecting to the power supply voltage the reader head activates the green and red LED light and simultaneously turns on the buzzer for approximately 1 second. Afterwards all signalization features are brought into idle condition. After placing the ID card on the reader head, a green LED flashes and at the same time the buzzer activates to signal reading the card. All signalization features can be controlled by an external LO signal from the host device.

## Montage

The reader head uses a passive RFID technology to work, which is sensitive to outside RF interference. This interference can be emitted either from the surroundings or from the power supply wires. The reader head mustn't be installed close to possible sources of electromagnetic fields. It is also advisable to use recommended power supply sources to limit the interference coming from the power supply wires. The interference by outside field is the bigger the more its frequency is similar to the working frequency of the reader head or the bigger its intensity is.

From this point of view the interference of reader heads between each other cannot be omitted as well. Therefore for correct function a minimal distance of 50 cm must be maintained between two reader heads. This distance can also be influenced by various metallic constructions (if there are any doubts about this it is better to perform a practical test on site before the final montage). The proper function of the reading distance can be influenced by metal surfaces nearby, which absorb electromagnetic fields or de-tune the antennas of the reader head. In this case we also recommend a practical test.

