

LK-22 RFID Scanner RFID Technology



- High performance
- Low cost by installed point
- Robustness construction
- Operation and Reading indicator led

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Description:

The LK22-125kHz is a RFID tags scanner which uses the 125 kHz frequency. This scanner is programmed to identify the tag in its field of view and send its information to any electronic equipment through RS-232 serial communication.

Data transmission:

The information is sent through two cables (TX and GND) at the RS-232 interface with the following configuration: 9600 Bauds, 8 data bits, N parity, one stop bit. The read tag's serial number is composed of 40 bits (5 bytes). The data package that the scanner sends to the computer starts with ":" (58d, 3Ah) followed by 10 (ten) ASCII bytes, representing the 10 hexadecimal digit (5 numbers) of the serial code contained in the read tag; plus two control (checksum) bytes, in ASCII representation of the sum of the 10 bytes sent. The character that indicates the end of the package is ASCII 13 (carriage return).

3A	30 31 41 46 33 36 42 45 44 32	34 45	0A
Package start character	Tag's serial number (10 digit)	Checksum (Control character)	End of package character

:0101D9EEC33F 48+49+48+49+68+57+69+69+67+51=575d = 23Fh ~ 3Fh (8bits)
:0101D9EF8436 48+49+48+49+68+57+69+70+56+52=566d = 236h ~ 36h (8bits)

The data packet is sent when the "tag" is detected. While the "tag" to remain in the field of reading, the data is sent continuously.

Technical Features

Operating frequency:	125KHz
Operating voltage:	24VDC
Weight:	2 Kg
Communication:	RS-232 Serial
Protection grade:	IP 68
Material:	Polyethylene
Fixation:	Two holes 9 mm
Dimensions:	292 x 220 x 30 mm (L x W x H)
Distance between scanners:	Distance between one scanner and other must be at least 440mm
Distance from metallic objects:	Distance from metallic objects must be over 120mm
Reading distance:	Approximately 120mm with 30mm tags. Tags must be at least 30mm distant from metal



Tubarão - SC - Rua Simeão Esmeraldino de Menezes, 400 - CEP 88704-090 - **(48) 3301.4000**

São Paulo - SP - Rua Professor João Marinho, 193 - CEP 04.007-010 - **(11) 3884.4266**

www.lenke.com.br

www.lenkeautomacao.com.br

comercial@lenke.com.br