LR-1R Series

Access Reader

LRE-1R
LRM-1R
LRE-1RD
LRM-1RD
LRH-1R
LREH-1R
LRMH-1R
LRE-1RS

User Manual

CONTENTS

INTRODUCTION

The LR-1R its series of Standard access control proximity readers with dynamic RGB LumiRing indicator. Customer can choose Stand-BY and Work indication themes. Each reader have 4 themes for stand-by mode and 4 themes for working mode. If reader used with Lumiring controller this themes can changed in any time by master-card without any tool work.
If reader used with other access control system themes must be set by jumper settings during installation.

Features:

- Static protection.
- Reverse power protection.
- Power protection.
- Waterproof coat, conforms to IP 56 (IP65*).
- Industrial grade components.
- Security screw.
- Safe wall mount.
- Wiegand 26-34 bits output.
- Can read EM card, HID card or both.
- Full color RGB ring indicator.
- 4 Stand-By indication themes.
- 4 Work indication themes.
- Low temperature resistance (-30 C).
  - * By special order device will be made without terminal block with cable.

Specification

|	
Power supply:	9-24 VDC
Indicator:	RGB light ring & Beeper
Indication theme:	4 stand-by, 4 reaction
Reader frequency:	125kHz
Standard 125kHz:	EMMARINE
Reading range 125kHz:	6-12cm
Supported Tage 125kHz:	EM 4001 / EM 4012 / HID ISOProx II / HID ProxCard II / TEMIC
Power Consumption:	< 1W
Communication Interface:	Wiegand 26-34 bits / W-BUS
Wiring Distance:	100 m (22 AWG with shielded cable)
Housing Material:	ABS + PC

VIDEO MANUAL

CATALOGUE

CARTON INVENTORY
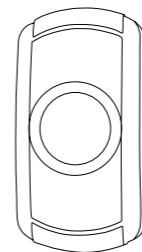
Reader options

LRE-1R
LRM-1R
LRE-1RD
LRM-1RD
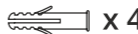LRH-1R
LREH-1R
LRMH-1R
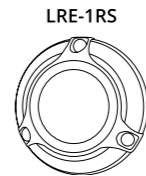
LRE-1RS

Self Tapping Screws x 4

Wall Anchors x 4

Security screw

Allen wrench key
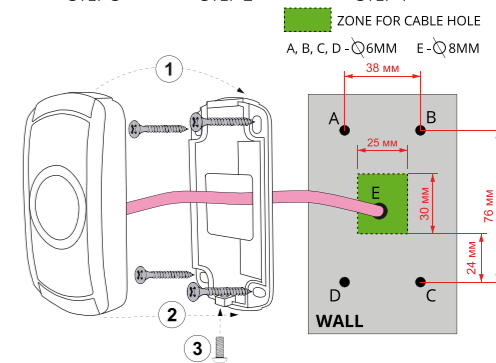
Jumper connector x 5

INSTALLATION

- Remove the back cover from the unit.
- Drill 4(A, B, C, D) holes or 2 any diagonal holes.
- Put the supplied wall anchor in holes.
- Put connection cable through cable window in back cover.
- Fix the back cover firmly on the wall with 4 flat head screws.
- Attach wires in cable to terminal block by connection diagram.
- Set necessary settings by jumpers.
- Attach unit to the back cover and fix by supplied security screw.
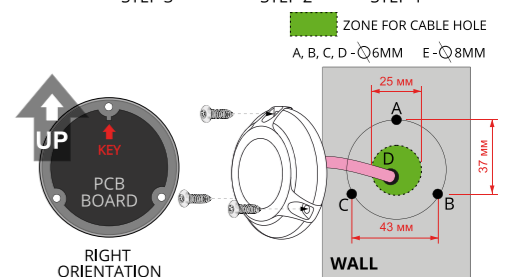

STEP 3 STEP 2 STEP 1
ZONE FOR CABLE HOLE
A, B, C, D - ⌀6MM   E - ⌀8MM
38 мм
25 мм
30 мм
76 мм
24 мм
WALL

STEP 3 STEP 2 STEP 1
ZONE FOR CABLE HOLE
A, B, C, D - ⌀6MM   E - ⌀8MM
25 мм
37 мм
43 мм
WALL

UP
KEY
PCB BOARD
RIGHT ORIENTATION

X1 JUMPER SETTINGS & SW1 DIP-SWITCH SETTINGS.

STAND-BY INDICATION THEMES

JUMPER SET	DIP SWITCH	SETTING
1-2 OFF 3-4 OFF	1 -OFF 2 -OFF	Theme 1 (default)
1-2 ON 3-4 OFF	1 -ON 2 -OFF	Theme 2
1-2 OFF 3-4 ON	1 -OFF 2 -ON	Theme 3
1-2 ON 3-4 ON	1 -ON 2 -ON	Theme 4

READER INTERFACE MODES

JUMPER SET	DIP SWITCH	SETTING
6-8 OFF	3 -OFF 4 -OFF	W-BUS (default)
6-8 ON	3 -ON 4 -OFF	Wiegand 26
7-8 ON	3 -OFF 4 -ON	Wiegand 34

WORK INDICATION THEMES

JUMPER SET	DIP SWITCH	SETTING
9-10 OFF 11-12 OFF	5 -OFF 6 -OFF	Theme 1 (default)
9-10 ON 11-12 OFF	5 -ON 6 -OFF	Theme 2
9-10 OFF 11-12 ON	5 -OFF 6 -ON	Theme 3
9-10 ON 11-12 ON	5 -ON 6 -ON	Theme 4

CONNECTION DIAGRAM

LRx-1R / LRH-1R / LRxH-1R

RED 1 — RED
GREEN 2 — GREEN
D1 3 — D1
D0 4 — D0
+12 VDC 5 — +12 VDC
GND 6 — GND

X1 1 ... 13

3RD PARTY CONTROLLER
WIEGAND 26-34 bits
6 WIRES

For connect to W-BUS controllers must use next scheme:

GREEN 2 — RED / GREEN
D1 3 — D1
D0 4 — D0
+12 VDC 5 — +12 VDC
GND 6 — GND

LRx-1RD

MAIN BOARD

INDOOR DOORBELL
BUTTON

DOORBELL OUT 1
GND 2

RED 3 — RED
GREEN 4 — GREEN
D1 5 — D1
D0 6 — D0
+12 VDC 7 — +12 VDC
GND 8 — GND

X1 1 ... 13

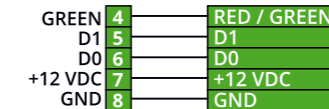3RD PARTY CONTROLLER
WIEGAND 26-34 bits
6 WIRES
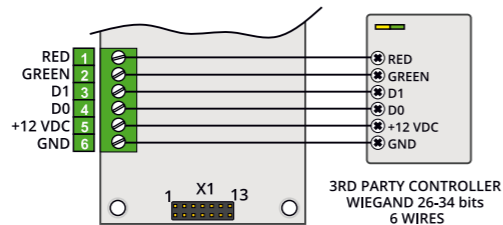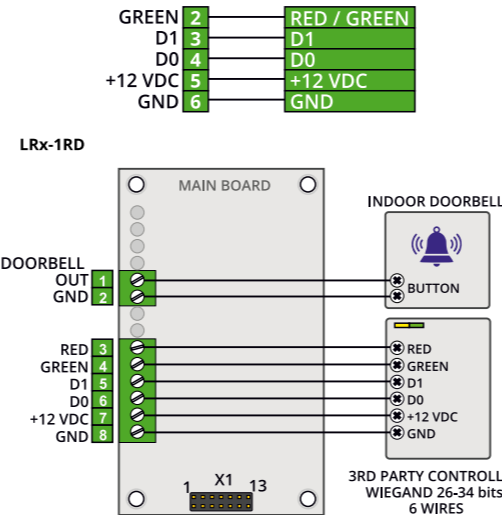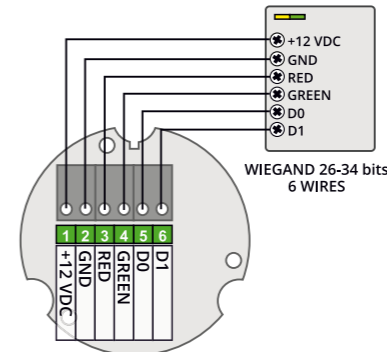
NOTE:
Commutating ability by doorbell out: 0,7A 12V

INTERNAL DOORBELL FUNCTION:

Internal doorbell function work only by W-BUS interface.
Example of use:
Outside LRE-1RD + Inside LR-1CB
In this case when someone press doorbell button both
devices play doorbell melody.

For connect to W-BUS controllers must use next scheme:

GREEN 4 — RED / GREEN
D1 5 — D1
D0 6 — D0
+12 VDC 7 — +12 VDC
GND 8 — GND

LRE-1CRS
CONNECT BY WIEGAND 26-34 TO 3RD PARTY CONTROLLER

+12 VDC
GND
RED
GREEN
D0
D1

1 +12 VDC
2 GND
3 RED
4 GREEN
5 D0
6 D1

WIEGAND 26-34 bits
6 WIRES

CONNECT BY W-BUS TO LUMIRING CONTROLLER

+12 VDC
GND
RED / GREEN
D0
D1

1 +12 VDC
2 GND
3 RED / GREEN
4 D0
5 D1

W-BUS 5 WIRE