

# ACL800SUW-RDMF

## Reader Installation Sheet

EN

### Surface Mount Mifare Reader



Figure 1: Front view

#### Description

These **ACL800SUW-RDMF** surface mount proximity readers include a buzzer and a tri-color LED for state indication (access granted, access denied or idle). ACL800SUW-RDMF has an automatic Wiegand output (32 or 56 bit) and is capable of reading Mifare cards/fobs (13.56 MHz).

#### Mounting

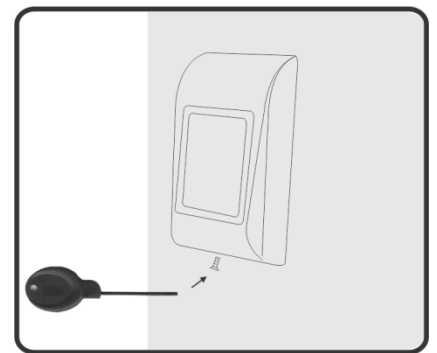
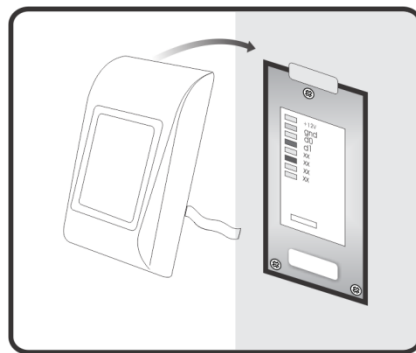
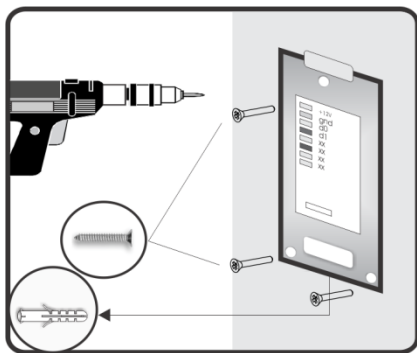
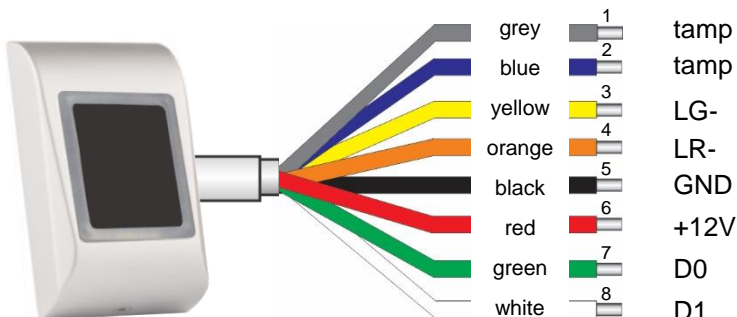


Figure 2: Mounting instructions

#### Wiring



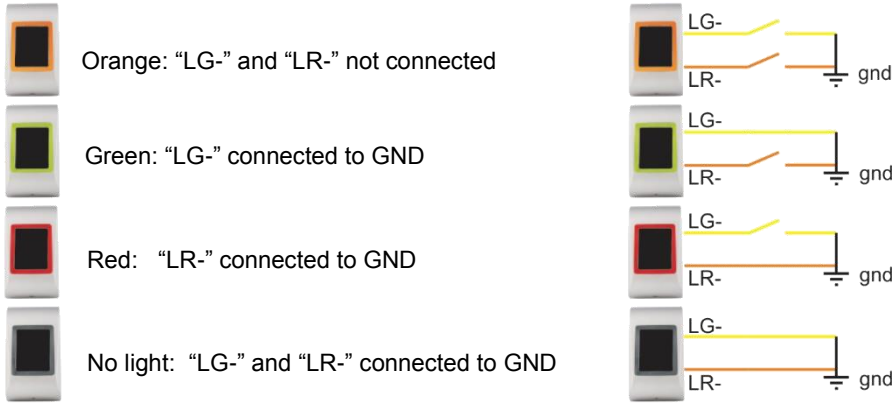
1	tamp	Tamper
2	tamp	Tamper
3	LG-	LED Green minus
4	LR-	LED Red minus
5	GND	Ground
6	+ 12 V	9 to 14 VDC
7	D0	Data 0
8	D1	Data 1

Figure 3: Wiring instructions

## Specifications

Operating voltage	9 to 14 VDC
Current consumption	150 mA at 12 VDC
Wiegand Interface	Wiegand 32 or 56 bit, according to the ID length of the card
Wiegand 32 description	<b>32 data bits</b> Pulse width: 100 µs Pause: 1 ms
Wiegand 56 description	<b>56 data bits</b> Pulse width: 100 µs Pause: 1 ms
Operating frequency	13.56 MHz
Card technology	CSN only for the technology : Mifare Classic, Mifare Plus, Mifare Ultralight, Mifare DESFire
Read Range	Up to 6 cm, depending on the card type
Buzzer ON/OFF	Yes, by DIP switch (ON = beeps on card read)
LED	Tricolor
LED control	Yes, by wires
Backlight ON/OFF	Yes, by DIP switch (ON = Idle mode is Orange)
Tamper	Yes
Cable distance	50 m according to Wiegand standard
Panel connection	Cable, 1 m
Material of design housing	ABS
Dimensions (W x H x D)	51 x 92 x 27 mm
Operating Temperature	-20 to +50°C
Relative humidity	0 to 95% noncondensing
IP Rating	IP65
Color	-S = Silver, -G = Grey, -B = Black
Weight (shipping)	260 g
Weight (product)	160 g

## Tricolor LED



## Backlight and Buzzer



1. Backlight in idle mode Orange ON/OFF
2. Buzzer on card read ON/OFF

## Settings in TruPortal Software

Go to System Administration/Card Formats.

Create custom Wiegand Format for Wiegand 56 bit and Wiegand 32 bits.

The reader will send the Wiegand format according to the card format. If the card presented has 56 bit number, the reader will send Wiegand 56 bit. If the card presented has 32 bit number, the reader will send Wiegand 32 bit.

**32bit raw**

Format Type: 32 Bit 14443 cascade 1

Facility Code: 0

Total Bit Length: 32

Data Field:	Starting Bit:	Bit Length:
Card Number	0	32
Facility Code	0	0
Issue Code	0	0

Parity Type:	Start Offset:	Length:	Check Bit Offset:
Even	0	0	0
Odd	0	0	0

**56 bit raw**

Format Type: Custom

Facility Code: 0

Total Bit Length: 56

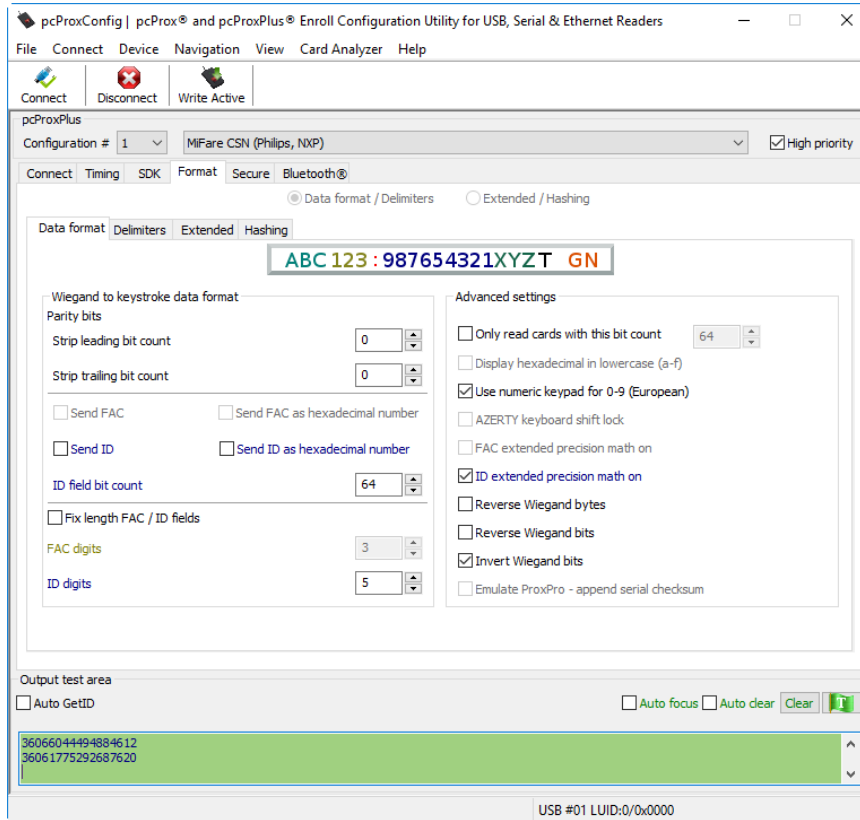
Data Field:	Starting Bit:	Bit Length:
Card Number	0	56
Facility Code	0	0
Issue Code	0	0


Parity Type:	Start Offset:	Length:	Check Bit Offset:
Even	0	0	0
Odd	0	0	0

## Settings in pcProxConfig Software

Select Mifare CSN (Philips, NXP) as card type.

Use these settings in the pcProxConfig Software when reading Mifare Card via the TP-RDR-LRN desktop Reader.



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Version	This document applies to ACL800SUW-RDMF hardware
Certification and Regulatory information	 <p>This product herewith complies with requirements of EMC directive 2014/30/EU, Radio Equipment Directive 2014/53/EU. In addition it complies with RoHS directive EN50581:2012</p>
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