

ACL800SUW-RDPX

Reader Installation Sheet

EN

Surface Mount Proximity Reader



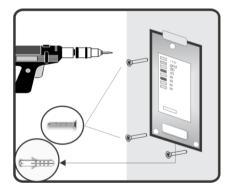


Figure 1: Front view

Description

These **ACL800SUW-RDPX** surface mount proximity readers includes a buzzer and a tri-color LED for state indication (access granted, access denied or idle). ACL800SUW-RDPX is capable of reading Casi Rusco, EM and HID compatible cards/fobs (125 kHz).

Mounting



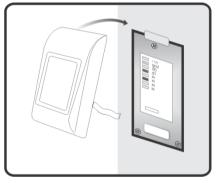
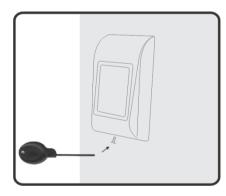


Figure 2: Mounting instructions



Wiring





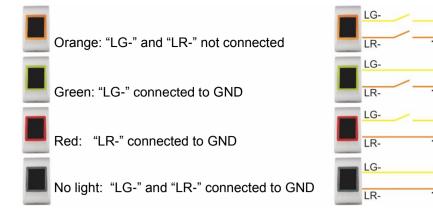
Figure 3: Wiring instructions

tamp	Tamper
tamp	Tamper
LG-	LED Green minus
LR-	LED Red minus
GND	Ground
+12V	9 to 14 VDC
D0	Data 0
D1	Data 1
	tamp LG- LR- GND +12V D0

Specifications

Supply voltage	9 to 14 VDC
Current consumption	50 mA at 12 VDC
Interface	Wiegand according to the card type Wiegand 32 bit - EM410x Cards Wiegand 40 bit – Casi-Rusco Automatic Wiegand - HID Cards
EM410x	32 data bits
Wiegand 32 description	Pulse width: 100 μs Pause: 1 ms Wiegand for EM410x Cards
Casi-Rusco Wiegand 40 description	even parity + 38 data bits + odd parity Pulse width: 100 μs Pause: 1 ms P1 = even parity calculated over the bits 1 to 19 P2 = odd parity calculated over the bits 0 to 39 Wiegand for Casi-Rusco cards
HID	Automatic Wiegand according to the HID card type
Wiegand 26 – 37 bit	
Operating frequency	125 kHz
Card technology	EM, Casi-Rusco or HID
Read Range	Casi-Rusco, HID up to 4 cm, EM up to 6 cm
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 Relative Humidity	−20 to +50°C 0 to 95% noncondensing
IP rating	IP65
Color	-S = Silver, -G = Grey, -B= Black
Weight (shipping) Weight (product)	260 g 160 g

Tricolor LED



gnd

gnd

gnd

gnd

DIP switch settings

1.Backlight in idle mode Orange ON/OFF	
2. Buzzer on card read ON/OFF	N
3. not used	ω
4. Enable HID (ON_OFF)	4
5. Enable EM or CASI (ON_OFF)	ပာ ြ
6. Select EM or CASI (ON-EM; OFF-Casi Rusco)	• 🔳 🛛

Card type selection



Settings in TruPortal Software

Go to System Administration/Card Formats. Select the Wiegand format that corresponds to the card type: - 32 bit 14443 cascade 1 for EM Cards

- 40 bit CASI 4002 for Casi Rusco Cards
- The HID formats available for HID Cards

F	Format Name:				Fo	rmat Name:		
1	32bit raw				asi 4002			
	Format Type:				Fo	rmat Type:		
	32 Bit 14443 cascade 1			v	4	0 Bit CASI 4002		
Facility Code:					Facility Code:			
)					0			
Total Bit Length:					Total Bit Length:			
32					40			
Data Field:	Starting Bit:		Bit Length:		Data Field:	Starting Bi	t:	Bit Length:
Card Number	0		32		Card Number	1		38
Facility Code	0		0		Facility Code	0		0
Issue Code	0		0		Issue Code	0		0
Parity Type:	Start Offset:	Length:	Check Bit (Offset:	Parity Type:	Start Offset:	Length:	Check Bit Offset:
Even	0	0	0		Even	1	19	0
Odd	0	0	0		Odd	0	39	39

Settings in pcProxConfig Software

Select Casi Rusco (GE Security, UTC) or EM 410x or some of the available HID formats as card type. Use these settings in the pcProx Config Software when reading the card via the TP-RDR-LRN desktop Reader.

EN	l	Casi Rusco			
pcProcConfig pcProx® and pcProxPlus® Enroll Configuration Ut File Connect Device Navigation View Card Analyzer Help Connect Disconnect Write Active pcProxPlus Configuration # 1 V EM 410x : RDR-6E8x Compatible Connect Timing SXK Format Secure Bluetooth® @ Data format / Delimiters Data format / Delimiters Data format / Delimiters Extended Hashing ABC 123 : 98765 Weigand to keystroke data format Pority bits Strip leading bit count Strip trailing bit count Strip trailing bit count Send FAC Send ID as hexadecimal number D fater Stricount D fater Stricount D fater Stricount D fater Stricount D fater Stricount D fater Stricount D fater St count D fater St cou	ility for USB, Serial & Ethernet Readers — X ✓ High priority Extended / Hadhing 64321XYZT GN Advanced settings Only read cards with this bit count 40 Display hexadecimal in lowercase (a-f) Use numeric keyado for 0-9 (European) AZERTY keyboard ahft look FAC extended precision math on Reverse Wiegand bytes Reverse Wiegand bytes	pcProxConfg pcProx8 and pcProxPlus8 Enroll Configuration Utility for US8, Serial & File Connect Device Navigation View Help Connect Descent Write Active pcProxPlus Configuration # CASLFLUSCO (GE Security, UTC) : RDR-528x Compatible Connect Data format Delimiters Timing SDK Extended ABC 123 : 987654321XYZT C Weigand to keystroke data format Delimiters Timing SDK Extended Weigand to keystroke data format Port Data format Delimiters Step traing bit count Step traing bit count Send FAC as hexadecinal number D field bit count D field bit c	High priority High priority His bit count 40 *** in Information for 0-9 (European) shift lock sion math on sion math on sytes sits		
FAC dgits 3 *	Invert Wiegand bits Emulate ProxPro - append serial checksum		s append serial checksum		
Output test area Auto GetID 135006318	Auto focus Auto dear Clear	Output test area Cutput test area Auto GetID Card ID shown here when Auto ID is checked	Auto focus 🕅 Auto dear 🛛 🚺		
	USB #01 LUID:0/0x0000	Ready USB #01 LU	JID:0/0x0000		

Manufacturer	UTC Fire & Security Americas Corporation, Inc. 1275 Red Fox Rd., Arden Hills, MN 55112-6943, USA					
	Authorized EU manufacturing representative: UTC Fire & Security B.V. Kelvinstraat 7, 6003 DH Weert, Netherlands					
Version	This document applies to ACL800SUW-RDPX hardware					
Certification and Regulatory information	CE					
	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					
Contact information	https://firesecurityproducts.com or www.interlogix.com					
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