Sensor Access **IC550 Layout**

Board Dimensions: 149x122mm.

Communication indicators: Rx (Green) blinks when PC is communicating. Tx (Red) blinks when SMART-L is answering.

> 1A Fuse. (Use only a "LittelFuse" fuse, PN: 372-1100-0411)



2 conductors wire 22 AWG. Maximum length: 100 meters I1 to I4 inputs may be supervised.



Example of a Normally Open switch with (optional) resistors.

WARNING!

Do not apply voltage higher than 30VAC/DC to alarm inputs.

J4: 2 OUTPUT RELAYS

RiC : Relay # i Common contact (i=1,2) RiNC : Relay # i Normaly Closed contact RiNO : Relay # i Normaly Open contact

RELAY RATING:

max. 24V AC/DC / 1A or 12V AC/DC / 2A

CONNECTION:

2 conductors wire 18 AWG. Standard length : 10 meters For more than 10m, depends on wire resistance and load current consumption WARNING !

Always fit a Diode across a DC electric lock, at the lock end.





	SWITCHES DS1
DS1/1-5	Controller Address

	SWITCHES DOI
DS1/1-5	Controller Address (See below)
DS1/6, 7, 8	Reader Technology:
off, off, off	Mag. ISO2 / Bar Code 39
	(If Bar Code, short 'D1' to 0v).
on, off, off	Wiegand with parity check
off, on, off	Wiegand without parity check
on, off, on	Radio
on, on, on	Mag. ISO1 / Bar Code 2/5
	(If Bar Code, short 'D1' to 0v).

DS1/1-5: Controller Address:

DS1/1:0	1	0	1	0	1	0	1	0	1	0	1	0	1	0	1
DS1/2: 0	0	1	1	0	0	1	1	0	0	1	1	0	0	1	1
DS1/3: 0	0	0	0	1	1	1	1	0	0	0	0	1	1	1	1
DS1/4: 0	0	0	0	0	0	0	0	1	1	1	1	1	1	1	1
DS1/5: 0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Addr: 00	01	02	03	04	05	06	07	08	09	10	11	12	13	14	15
DS1/1:0	1	0	1	0	1	0	1	0	1	0	1	0	1	0	1
DS1/2: 0	0	1	1	0	0	1	1	0	0	1	1	0	0	1	1
DS1/3: 0	0	0	0	1	1	1	1	0	0	0	0	1	1	1	1
DS1/4: 0	0	0	0	0	0	0	0	1	1	1	1	1	1	1	1
DS1/5:1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Addr: 16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31
		1	=S	wit	ch	ON	, 0=	=Sv	vitc	h C)FF	7			

EX	TERNAL CONNECTORS
J1, J2	Card Readers No.1,2
12	4 supervised Alarm inputs I1-I4
12	(±30v max)
J4	Relays 1 & 2 (24v /1A max).
J5	10/100 base-T connector (RJ45)
14	12V/1,2A Lead Acid Battery
10	Connection only.
J7	Tamper Switch

Total Max. allowed current consumption for Door opener and readers: 700mA !!!

	JUMPERS
JP1	Never installed
TD)	Lithium Cell: must
JF 4	be always installed
1D2	Serial Port (TTL levels).
JEJ	(For serial adapter)
IP4	Never installed
	•

J1,J2: CARD READERS :

LR/LG: Red/Green leds Active low.
50 mA through internal 110 Ohms resitors.
BUZ: Buzzer Reader: open collector, active low,
Max. voltage : 12Vdc.
20mA without limit. resistor.
D0 : Data0/Clock (D0/D1:Max. voltage allowed:
D1: Data1/Data 30v AC/DC.)
$+\mathbf{V} = 12$ Vdc for card readers.
Max. Total consumption (2 readers): 250mA.

In order to comply with local Electricity and Safety standards, always connect the IC550 to an approved IEEE802.3af PoE Midspan

Lantronix TCP/IP Interface configuration

1. TCP/IP Initialization via the 'DeviceInstaller' tool of Lantronix

a) DeviceInstaller setup

Launch the setup file of 'DeviceInstaller' located on the setup CD of the access control application and also available for download from Here

b) IP address and Subnet mask setting

The initial (first time) IP address setting can only be done when both the PC (from which the configuration is set) and the controller are on the same network segment.

If there is a router between the PC and the IC550, two methods are possible: either install 'DeviceInstaller' on a PC located on the same network segment as the controller and configure the interface from that PC or temporarily connect the IC550 to the local network segment, configure the interface, then re-connect the controller to its intended location.

Once the IC550 is connected through its RJ45 connector to the **local** segment of your TCP LAN, go to 'Start/ Programs/Lantronix/DeviceInstaller' and start the program. Click on '**Search**' to detect the interface through the network, select it, go to the 'Web Configuration' tab and confirm with the '⊋' button. A message may appear indicating a security risk. Ignore it and click on '**Network**'. The following screen should appear:

Set the new IP Address and Subnet Mask in the corresponding fields in accordance with the recommendations of your network administrator.

In any case, never set it to 0.0.0.0 !

Changes are applied only after clicking **OK** and then clicking '**Apply Settings**'.

<u>Note</u>: the changes might not be reflected on the screen even after clicking 'Apply Settings'. If so, restart the 'Device Installer' or view the settings via a standard Web browser.

c) Set the communication speed

Click 'Serial Settings'. Select Protocol 'RS232' and the appropriate Baud Rate (9600 by default). To apply the changes, click OK and then 'Apply Settings'.

d) Set the communication port

Click '**Connection**' and select the appropriate Local Port (10001 by default).). To apply the changes, click **OK** and then '**Apply Settings**'.

2. Addressing the IC550 within access control application

In the "Controller Network" screen of the access control application, set the network as TCP and set the IP address with the port number as in this example: **192.175.33.140:10001**

00	Address: attp://1172.1602.12.022.pecone.10c_cond.24ml
LA	
	Network Settings
Network	k)
Serial T	Iuseel / Network Mode: Wired Only •
Hosti	IP Configuration
Senal	Settings Obtain IP address automatically
Email	BOOTP: () Enable () Disable
Trigge	er 1 er 2 DHCP: Enable Disable
Trigge	AutoP: Enable Disable
Apply 5	Settings DHCP Host Name:
Real Property lies	 Lise the following IP configuration:
	IP Address: 172.168.10.62
	Subnet Mask: 255,255,0.0
	Default Gateway: 0.0.00
	DNS Server: 0.0.0.0
	Ethernet Configuration
	Speed: @ 100 Mbps () 10 Mbps
	Duplex @ Full @ Hall
	ок
I A	A ITOON IIV" Server Veran
	Mic Anteres 60-26 44-08-95-63
D Network	MACINIX MARKE 00.28-44.08.95-63 Serial Settings
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3. The IC550 must be connected to the Ethernet network through a standard IEEE 802.3af midspan which must meet the local electricity requirements.

Mechanical dimensions (in mm.)



CAUTION ! RISK OF EXPLOSION IF BATTERY IS REPLACED BY AN INCORRECT TYPE DISPOSE OF USED BATTERIES ACCORDING TO THE INSTRUCTIONS