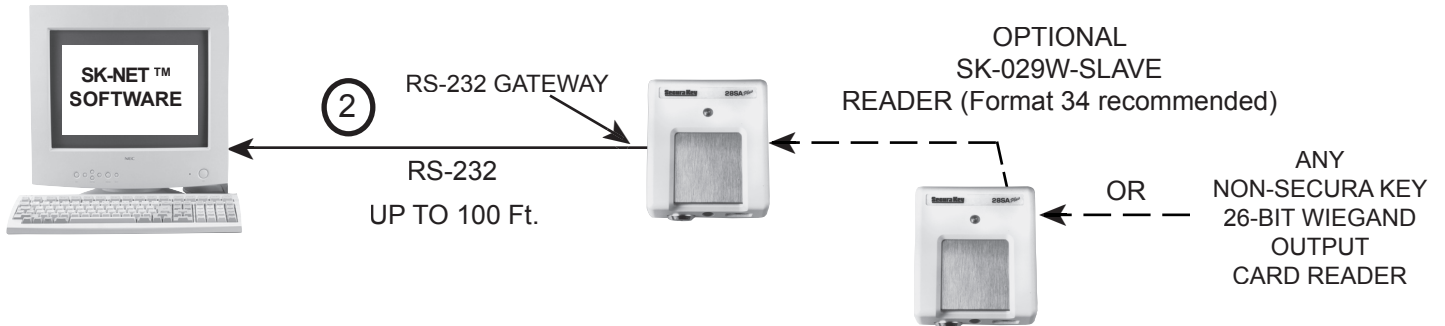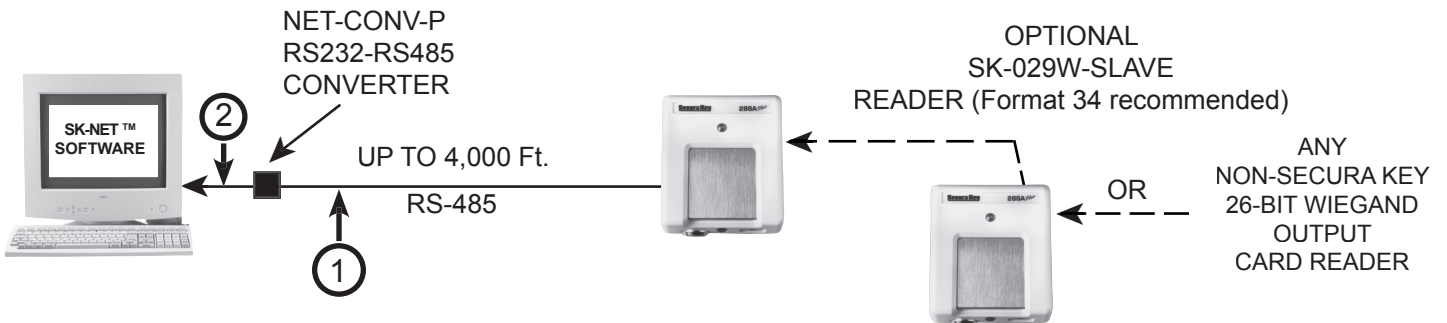# SECURA KEY CARD ACCESS CONFIGURATION GUIDE
Single/Multi-Reader Systems with 28SA-Plus
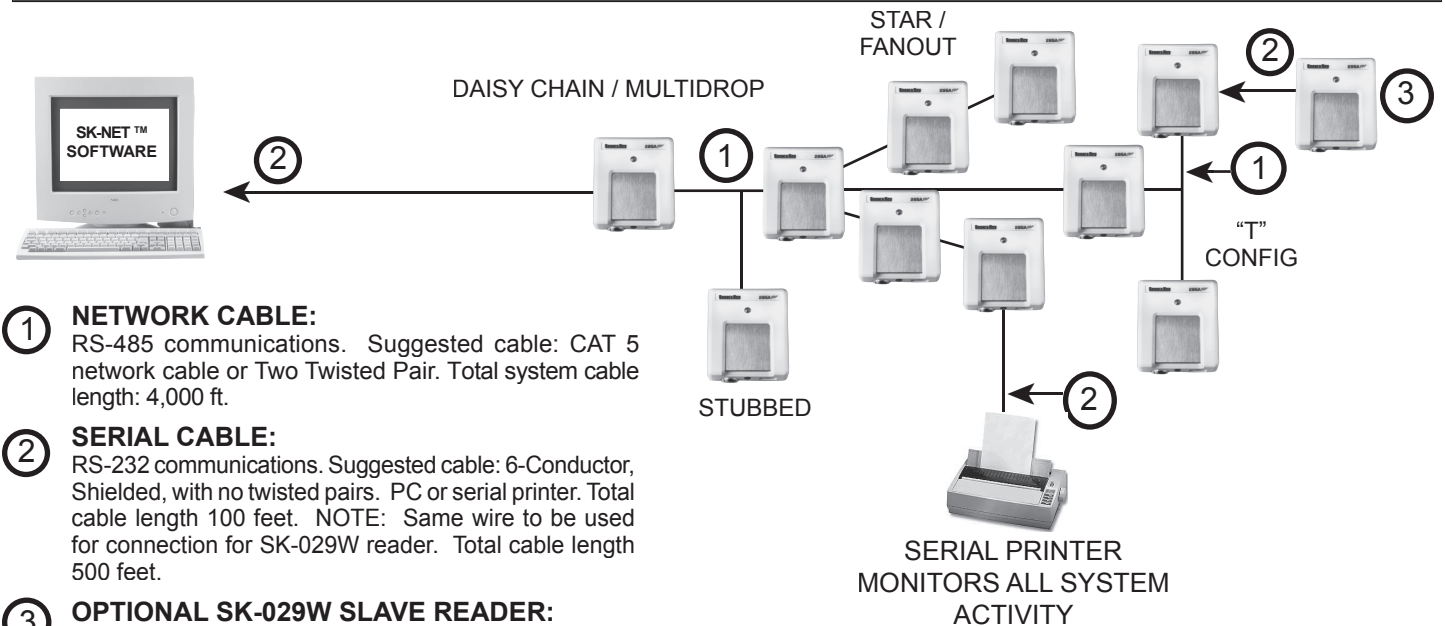
28SA-PLUS READER SYSTEM USING SK-NET™ SOFTWARE WITH RS-232 GATEWAY CONNECTED DIRECTLY TO A PC

SK-NET ™ SOFTWARE

② RS-232 GATEWAY

RS-232
UP TO 100 Ft.

OPTIONAL
SK-029W-SLAVE
READER (Format 34 recommended)

OR

ANY
NON-SECURA KEY
26-BIT WIEGAND
OUTPUT
CARD READER

28SA PLUS READER SYSTEM USING SK-NET™ SOFTWARE WITH RS-232 TO RS-485 CONVERTER (NET-CONV-P)

SK-NET ™ SOFTWARE

②

NET-CONV-P
RS232-RS485
CONVERTER

①

UP TO 4,000 Ft.
RS-485

OPTIONAL
SK-029W-SLAVE
READER (Format 34 recommended)

OR

ANY
NON-SECURA KEY
26-BIT WIEGAND
OUTPUT
CARD READER

28SA PLUS READER SYSTEM USING SK-NET™ SOFTWARE- SINGLE LOCATION RS-232 CONNECTION

SK-NET ™ SOFTWARE

②

STAR / FANOUT

DAISY CHAIN / MULTIDROP

①

②

③

①

"T" CONFIG
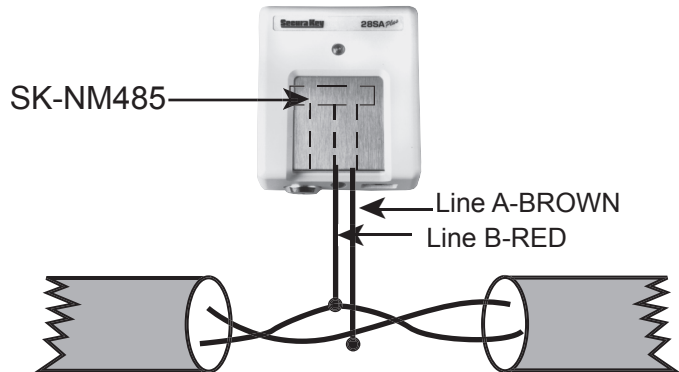
STUBBED

②

SERIAL PRINTER
MONITORS ALL SYSTEM
ACTIVITY

① **NETWORK CABLE:**
RS-485 communications. Suggested cable: CAT 5 network cable or Two Twisted Pair. Total system cable length: 4,000 ft.

② **SERIAL CABLE:**
RS-232 communications. Suggested cable: 6-Conductor, Shielded, with no twisted pairs. PC or serial printer. Total cable length 100 feet. NOTE: Same wire to be used for connection for SK-029W reader. Total cable length 500 feet.

③ **OPTIONAL SK-029W SLAVE READER:**
To control access in both directions through a single passageway. Supports real antipassback. Format 34 recommended.

MULTI LOCATION SYSTEM WITH SK-NET-MLD SOFTWARE

RS-232
GATEWAY

SK-MDM

SK-NET ™
SOFTWARE

MODEM

TELCO LINE

NET-CONV-P

A virtually unlimited number of remote locations
can be set-up on one PC with SK-Net-MLD Software.

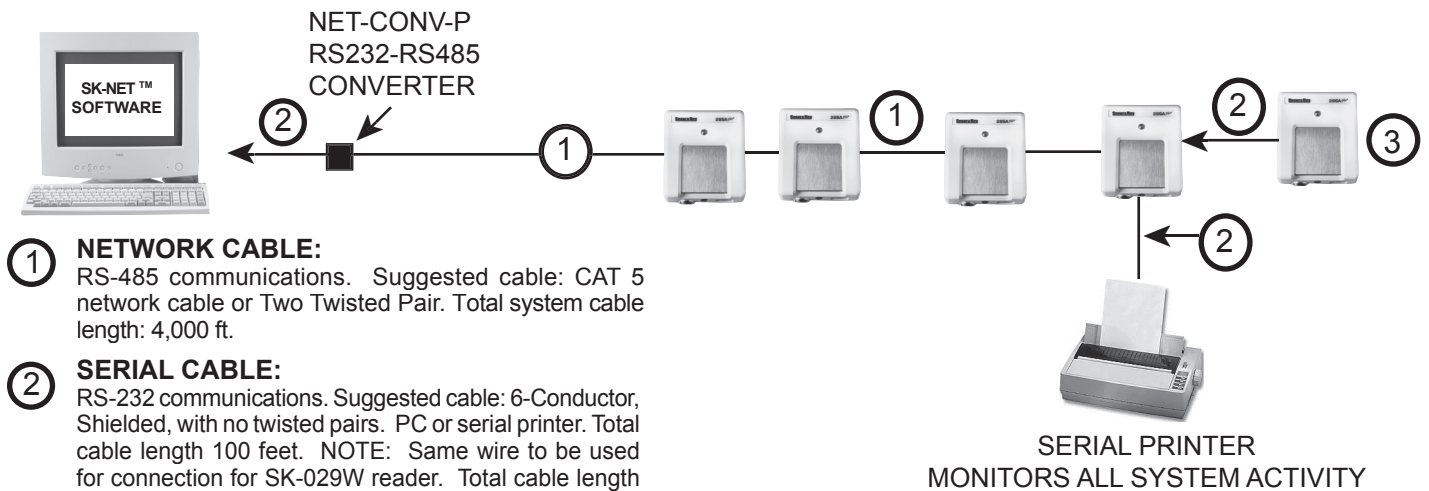Up to 100 28SA
Plus Readers

Up to 100 28SA
Plus Readers
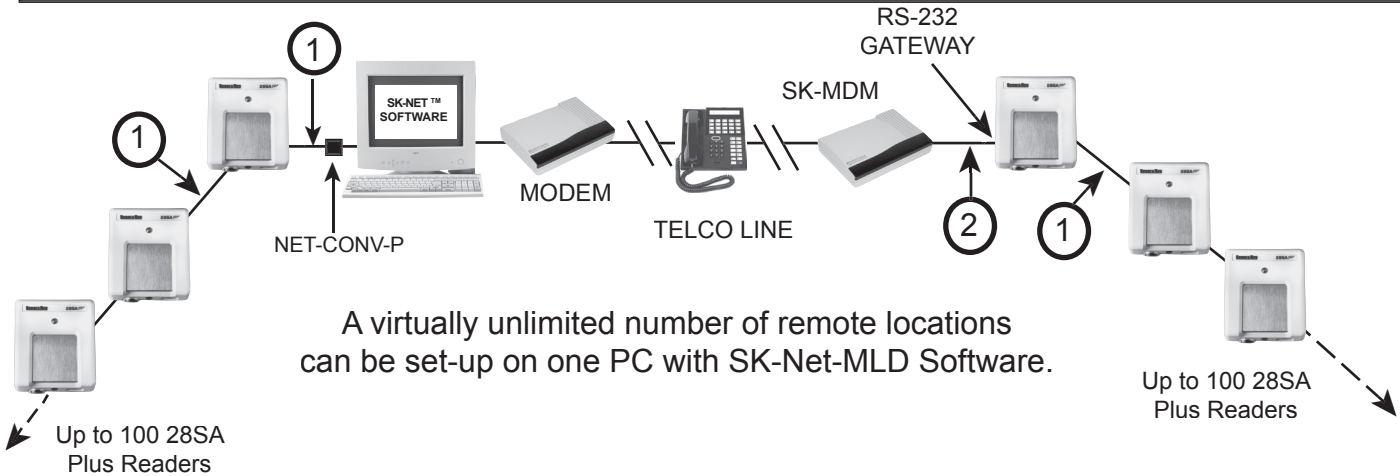
NETWORK WIRING CONNECTIONS

- Install SK-NM485 Network Module
  in each 28SA *Plus*
- Network Module fits inside reader
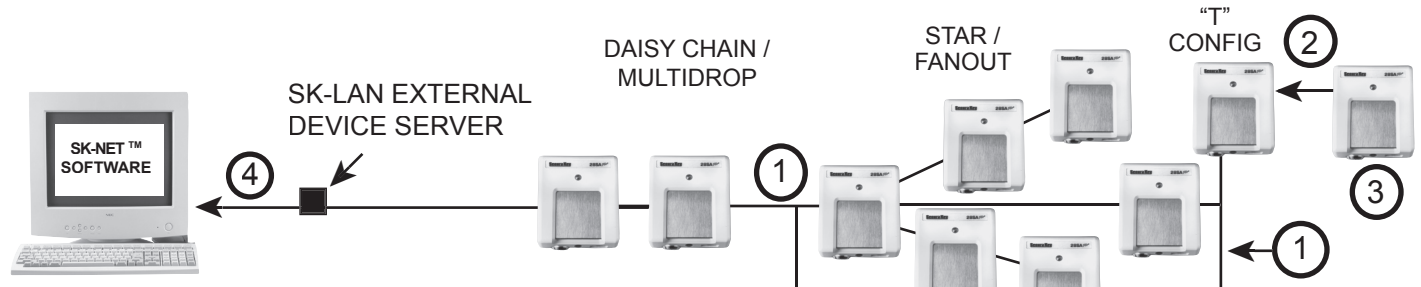 housing and has built-in transient
  protection

SK-NM485

Line A-BROWN
Line B-RED

28SA PLUS READER SYSTEM USING SK-NET™ SOFTWARE- SINGLE LOCATION RS-485 with CONVERTER

NET-CONV-P
RS232-RS485
CONVERTER

SK-NET ™
SOFTWARE

① **NETWORK CABLE:**
RS-485 communications. Suggested cable: CAT 5
network cable or Two Twisted Pair. Total system cable
length: 4,000 ft.

② **SERIAL CABLE:**
RS-232 communications. Suggested cable: 6-Conductor,
Shielded, with no twisted pairs. PC or serial printer. Total
cable length 100 feet. NOTE: Same wire to be used
for connection for SK-029W reader. Total cable length
500 feet.

③ **OPTIONAL SK-029W SLAVE READER:**
To control access in both directions through a single
passageway. Supports real antipassback. Format 34
recommended

SERIAL PRINTER
MONITORS ALL SYSTEM ACTIVITY

Note: When using the RS-232 to RS-485 converter, you cannot use
the stubbed, star fanout or "T" configuration. All network connections
from 28SA Plus to the next 28SA Plus must be in parallel with each
other. The SK-NM485 module, Pins 1 and 2 must be a twisted pair.
Pin 3 (Ground) is NOT normally connected, but if required, can use
1 conductor of a second pair.

DAISY CHAIN / MULTIDROP

STAR / FANOUT

"T" CONFIG

SK-LAN EXTERNAL DEVICE SERVER

SK-NET ™ SOFTWARE

STUBBED

SERIAL PRINTER MONITORS ALL SYSTEM ACTIVITY

(1) **NETWORK CABLE:**
RS-485 communications. Suggested cable: CAT 5 network cable or Two Twisted Pair. Total system cable length: 4,000 ft.

(2) **SERIAL CABLE:**
RS-232 communications. Suggested cable: 6-Conductor, Shielded, with no twisted pairs. PC or serial printer. Total cable length 100 feet. NOTE: Same wire to be used for connection for SK-029W reader. Total cable length 500 feet.

(3) **OPTIONAL SK-029W SLAVE READER:**
To control access in both directions through a single passageway. Supports real antipassback. Format 34 recommended.

(4) **ETHERNET CABLE:**
Standard ethernet cable connector connected to existing LAN.

SYSTEM EQUIPMENT COMPONENTS

ENTRACOMP® 28SA _Plus:_

    28SA-PLUS-SM: Surface Mount Housing
    28SA-PLUS-FM: Flush Mount Housing
    28SA-PLUS-MH: Metal Surface Housing

SK-029W Optional Slave Reader for 28SA _Plus_ - (Format 34 Recommended):

    SK-029W-SM: Surface Mount Housing
    SK-029W-FM: Flush Mount Housing
    SK-029W-MH: Metal Surface Housing

SKC-06 — Cards - Specify quantity
PD-26 — Programming Deck - One recommended for each System
TS   — Tamper Switch

SOFTWARE:

       SK-NET™- DM — Basic Software - CD-ROM and manual
       SK-NET™ -MLD — Multi-Location Software with CD-ROM and manual
       SK-NET-MLD - CSXX (XX= 2,5,10 or 15 workstations) with Client Server License

ACCESSORIES

       PMA — Post Adapter-For Mounting Reader to a Post (ie. Parking Lot)
       FMA — Flange Adapter - For Mounting on a Metal or Block Wall
       NET-CONV-P — RS-232 to RS-485 Converter with Power Supply (12 VDC@100mA)
            one required per system (unless using a gateway connection)
       SK-QUICKCONN — Cable & Connector - For Bench Testing or field connection with a laptop
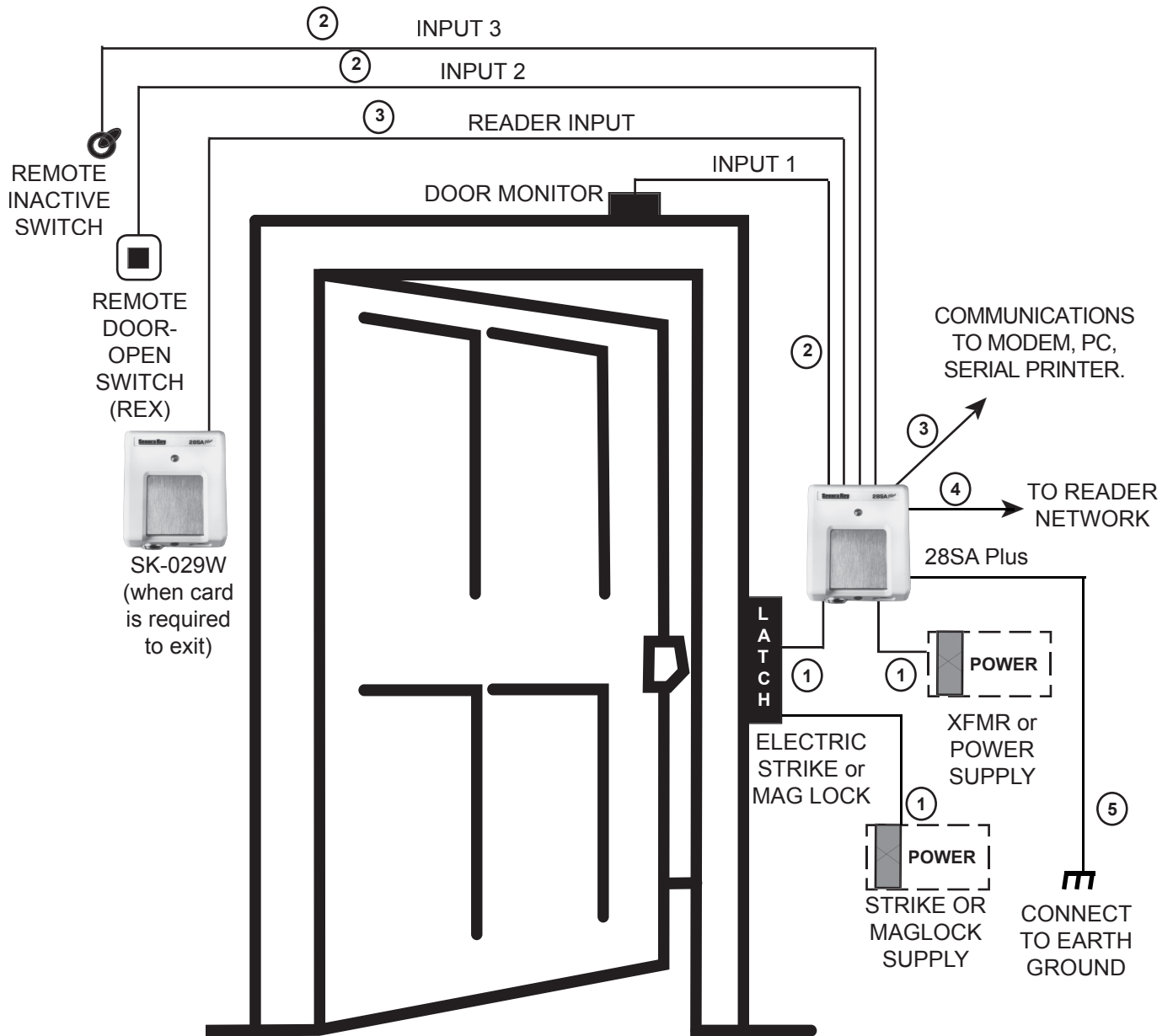   SK-MDM — Modem - 56K Baud External Modem
            for dial-up connection to any SK-ACP
       SK-LAN — TCP/IP External Device Server w/ Power Supply

PC REQUIREMENTS: See Table

MINIMUM REQUIREMENTS*			
OPERATING SYSTEM	**PROCESSOR SPEED**	**RAM**	**AVAILABLE DISK SPACE**
WINDOWS® 2000	700 MHz	96 MB	100 MB
WINDOWS® XP	1 GHz	256 MB	1 GB
WINDOWS® VISTA	1 GHz	1 GB	1 GB
RECOMMENDED SYSTEM			
WINDOWS® XP	2 GHz	1 GB	10 GB
WINDOWS® VISTA	1.6 GHz, DUAL-CORE 64-BIT	2 GB	1 GB
If using Vista, Aero-capable discrete graphics card with 128 MB Graphics Memory.			
SERVER REQUIREMENT**			
WINDOWS® 2000 OR GREATER	1.4 GHz	512 MB	20 GB
** For SK-NET-MLD-C/S version, a server is required.			

SECURA KEY 28SA Plus
Typical Door Installation

② INPUT 3

② INPUT 2

③ READER INPUT

INPUT 1

DOOR MONITOR

REMOTE INACTIVE SWITCH

REMOTE DOOR-OPEN SWITCH (REX)

SK-029W (when card is required to exit)

②

COMMUNICATIONS TO MODEM, PC, SERIAL PRINTER.

③

④ TO READER NETWORK

28SA Plus

LATCH

① ①

POWER

XFMR or POWER SUPPLY

ELECTRIC STRIKE or MAG LOCK

①

POWER

STRIKE OR MAGLOCK SUPPLY

⑤

CONNECT TO EARTH GROUND

CABLE TYPES:

① 2 COND, UNSHIELDED 16-18 AWG

② 2 COND, UNSHIELDED 18-24 AWG

③ 6 COND, SHIELDED, NO TWISTED PAIRS, 18-24 AWG

④ RS-485 - CAT 5 NETWORK CABLE OR TWO TWISTED PAIR

⑤ 1 CONDUCTOR UNSHIELDED, 16-18 AWG

NOTES:

- Power: 12-24VAC OR DC 125 mA
- Power with slave: 12-16 VAC or 24 VDC 250 mA

6980