

PRODUCT LINE: Intrusion

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PRODUCT: OSDP to Wiegand Interface

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Version: 02

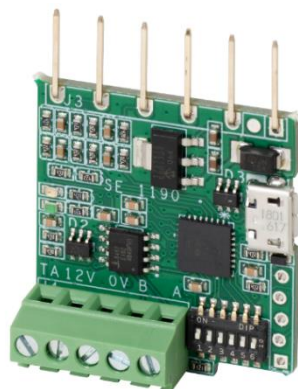


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1. OSDP Configuration

1.1. Language Configuration (DIP 1-4)

Program:	Language		DIP1	DIP2	DIP3	DIP4
0	EN	English	Off	Off	Off	Off
1	DK	Danish	On	Off	Off	Off
2	SE	Swedish	Off	On	Off	Off
3	NO	Norwegian	On	On	Off	Off
4	FI	Finnish	Off	Off	On	Off
5	FR	French	On	Off	On	Off
6	DE	German	Off	On	On	Off
7	ES	Spanish	On	On	On	Off
8	NL	Dutch	Off	Off	Off	On
9	IT	Italian	On	Off	Off	On
15	LED's Only	No Text	On	On	On	On

1.2. Reverse Byte Configuration (DIP 5)

Reverse byte configuration for ACT Mifare encoded cards: DIP5 = On

1.3. Power Save Mode (DIP 6)

Disable display power save: DIP6 = On

1.4. SPC Configuration

For correct function between the VR reader's and the OSDP converter, the reader profile must be set to "AR618X".

Configuration->Hardware->XBus->Door Controllers->[door]->reader profile.

LED Override must be activated:

Configuration->System->System Settings->Door & Reader -> Override Reader Profile [X].

1.5. Tamper Monitor

Tamper monitoring function requires the use of a Dual EOL input configuration with two 4k7 resistors.

Configuration->Hardware->XBus->Door Controllers->[door]->Zone EOL->Dual 4K7/4K7

The reader tamper is used in conjunction with a configured Door position input.

These steps can be configured through the embedded SPC web server or via the SPC Connect Pro configuration tool.

Refer to Fig 1 for tamper wiring.

2. Wiring Overview:

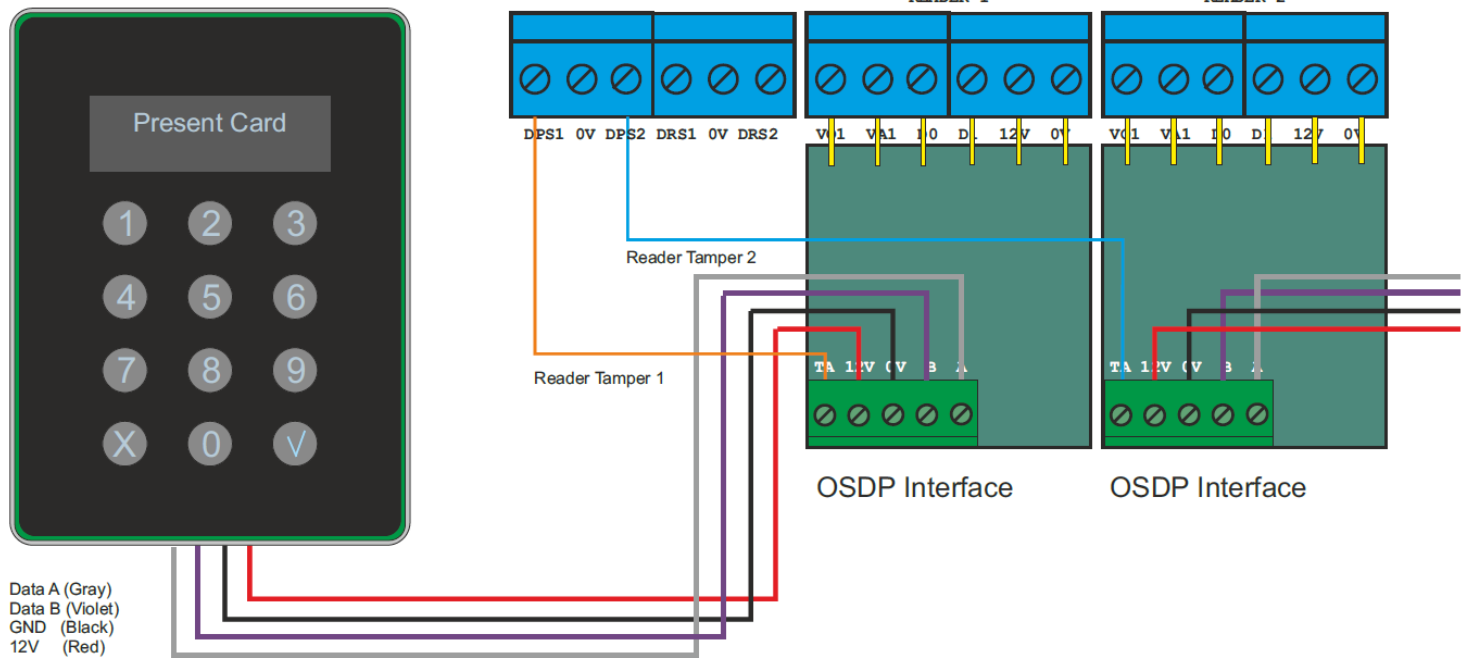
2.1. Cable Specification

Use a pair twisted screened cable (2 pairs + screen), such as Beldon 9502. The cables are connected on the respective indicators. Observe the correct cable distance over OSDP (<1Km)

2.2. Wiring Schematic (Fig.1)

Card Reader
Vanderbilt VR40s
Check www.vanderbiltindustries.com for the full range of our compatible OSDP readers

Door Controller
SPCA210



2.3. Wiring with Door Contact in place

Connect the tamper wire from the OSDP interface into DPS1 input as shown in Fig.2. Door input is configured for Dual EOL 4K7. When VR40 reader is removed from its base, DPS1 input will go into a tamper state (Short)

2.4. Wiring with no door contact in place.

Connect the tamper wire from the OSDP interface into DPS1 input as shown in Fig.3. Using a 4K7 resistor, connect it directly across DPS1 and 0V inputs. Door input is configured for Dual EOL 4K7. When VR40 reader is removed from its base, DPS1 input will go into a tamper state (Short)

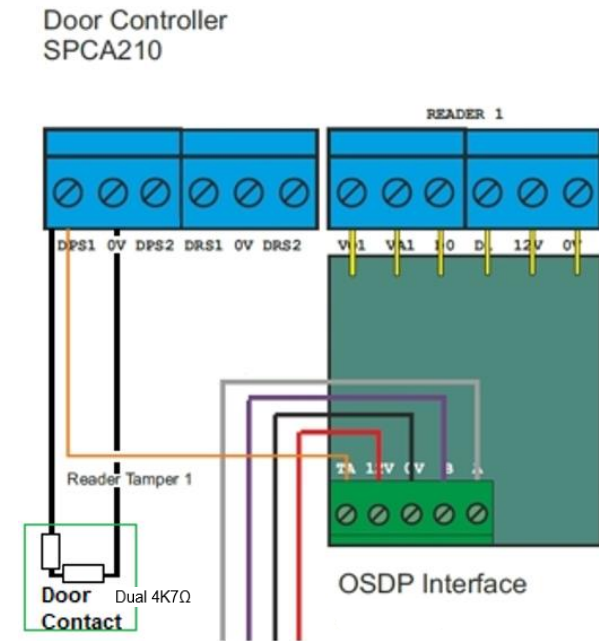


Fig. 2

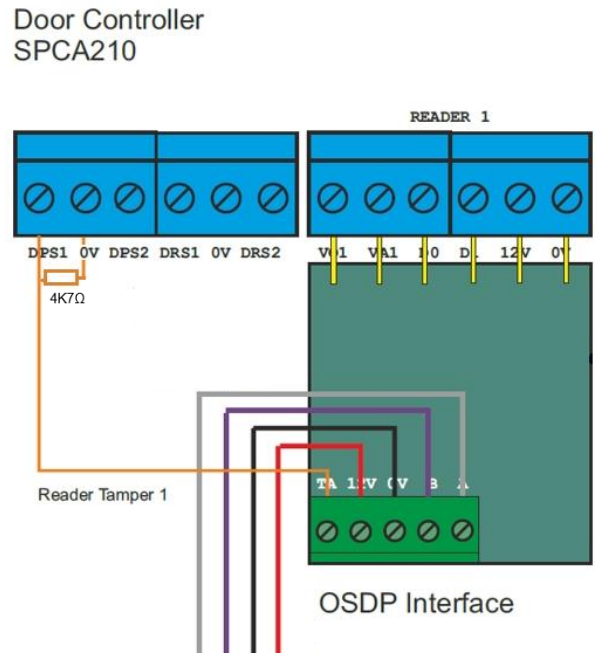


Fig. 3

Note. At time of publication the VR40/10 readers were firmware version V2.005.002, while the VR20/50 readers were version 2.002.005. The OSDP to Wiegand interface was firmware version 1.50b.

3. Readers Support

3.1. VR Readers

While illustration Fig. 1 represents the VR40 OSDP reader, the OSDP to Wiegand Interface support the complete VR reader range.

This included the following readers:

- VR40S-MF MIFARE EV1 Reader + keypad
- VR10S-MF MIFARE EV1 Card Reader
- VR50M-MF MIFARE EV1 Mullion + keypad. (Configured to OSDP mode. Please refer to reader manual)
- VR20M-MF MIFARE EV1 Mullion Reader. (Configured to OSDP mode. Please refer to reader manual)

If you have any questions, please contact our Technical Competence Centre.

Contact details can be found on our website.

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