Installation and User Instructions for S884 OSDP Readers

The S884-OSDP reader is a contactless smart-card reader, with Graphic LCD and keypad. The reader is configured for RS485 / OSDP communications.

This reader is for indoor Use Only.

The S884-OSDP reader will read smartMAX encoded MIFARE cards and card serial numbers from most ISO 14443A smart cards which have a 4-byte UID (User Identification).

For additional information regarding the installation, configuration and proper use of this product:
SMS User Guide, P/N 9600-0429,
M2150 Access Control Design Guide, P/N 9600-0420,
M2150 Intrusion Guide, P/N 9600-0540,
M4000 Commissioning Guide, P/N 9600-0698

1   Mount the Backplate

Mount the backplate using countersunk headed screws adjacent to the opening edge of the door.

If fixing hole 'A' is used then the breakout must be removed and the screw must not protrude.

Feed the required cables through the backplate:

- The cable from the controller.

If wall tamper function is to be used then breakout 'B' must be removed and an appropriate wall screw fitted through the hole to actuate the tamper lever.

The securing screws 'C' are integral to the backplate and are unscrewed via the small holes in the enclosure so that the screw heads locate in the counterbored holes on the inside of the enclosure.

You should find that the backplate has holes for connection to most standard electrical backboxes.
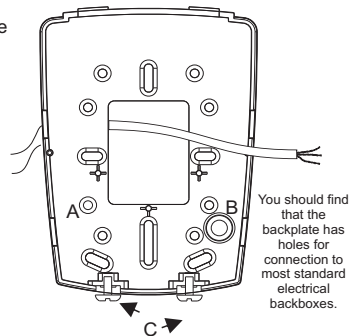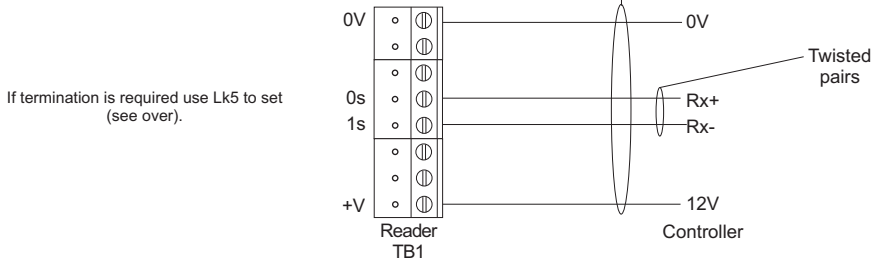
2   Reader Connections

Note:
1). Consult local AHJ (Authority Having Jurisdiction) when installing access control readers and locking mechanisms to any portal in an egress path.
2). The use of Fail Closed / secure configuration shall be determined by local building codes and the local AHJ.
3). Wiring methods shall be in accordance with NEC (National Electrical Code) ANSI/NFPA 70.

RS485 (OSDP)

225ft (75m) max with Belden 9503 or 450ft (150m) by doubling power cores with Belden 9536.

Connect shield at controller end only.

If termination is required use Lk5 to set (see over).

Reader TB1		Controller
0V		0V
		Twisted pairs
0s		Rx+
1s		Rx-
+V		12V

Note: The **FERRITE** must be fitted!
Slide the ferrite sleeve onto cable before wiring terminal block. Ferrite to be placed 50mm (2") up cable and held in place with cable ties.

3 Reader Links

For OSDP the links should be configured as below.:

LK3 Set (USER Keypad audio feedback) to 1 for sound ON, or 0 for sound OFF.

LK5 Fit link to Pin 2 and 3 to add comms termination (120R). Fit link to Pin1 and 2 for no termination.

4 Using / Testing the Reader

Present the card face-on to the reader until you hear a "bleep". The reader is now working properly. Cards can be presented in rapid succession; there is no need, for example, to wait for "UNLOCKED" to disappear before presenting another.

If the reader has been enabled for user-code mode at the controller, you can gain access by pressing the × key, entering your card number, then pressing the ✓ key.

The reader, by default, retain the formats from the first two cards used.

In addition to the card format retention, the readers allow the first two card formats learnt by the reader to be locked.

Instructions to 'Lock' the formats:

- Ensure that the reader has learnt the two required formats.
- Navigate through the setup menu to 'Card Learning'.
- Set the 'Card Types Locked' to yes 'Y' and Exit.

LED Status Indicator

GREEN – The lock is released and you may open the door.

RED – No access rights to gain entry, or the reader did not read your card properly. Present a card again.

YELLOW – Enter your PIN. If you make a mistake, the message INVALID PIN is momentarily displayed, followed by ENTER PIN, to prompt you to try again.

A Setup menu can be displayed by pressing the × and ✓ keys simultaneously while power is applied. You can use the menu to change the contrast and language used for the LCD (default English). Use the four function keys to navigate around the menu.

Please refer to M2150 Intrusion Guide, 9600-0540 for IDS Arm / Disarm procedure.

Specifications
Input voltage: 12-13Vdc.
(Voltage Source is Class 2 Power Limited)
Input current: 320mA max
Operating temperature: 32 to 120°F (0 to 49°C)
Operating humidity: 15 to 90%, non-condensing.
Maximum read range: 4" (100mm).

Approvals
En302291 & EN301489

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