PULSE

Access Control Series 2014

Pulse 1018 Contactless Smart Card Mini Reader

is an user friendly and high security physical Access Control reader, it is water proof design that suitable for different indoor and outdoor installation environment, it made by high quality material to ensure enhanced reliability and long-term duration.. Reader wiegand output can direct connect to any wiegand door access panel. The reader high security data encryption output which works with Encryption Gateway ensure the data cannot be snooped by external device, totally solve the wiegand signal problem.

KEY FEATURES:

- Waterproof Contactless Technology Keypad Reader
- NXP MIFARE Plus 2K / 4K bytes card read and write
- Random CSN output, AES Keys authentication (2 x 128 keys per sector)
- RED / Green / Blue or mixed color LED bar, user defined LED ON / OFF time interval
- Internal buzzer, user defined buzzer ON / OFF time interval
- Multi card format checking internally, fixed length card number output
- User define wiegand pulse interval to serve different door access panel
- User defined "keep alive" alive feature
- Reader firmware upgradable
- Standard mode : wiegand output to wiegand door access panel, RS485 to host for reader communication
- Secure mode : high security data encryption output, work with Encryption Gateway avoiding card data snooped

TECHNICAL DATA

Model Number	1018
Card Technology	NXP MIFARE Plus S and MIFARE Plus X (2K / 4K bytes)
ISO standard	ISO14443A
Transmit Frequency	AES 128 bits diversify key (2 x 128 bits key per sector)
Key Authentication	192 bits KEY, 3 DES encrypted
Card Data Security	Random CSN response
MIFARE CSN	ISO Card : 6cm ; Keyfob : 4cm
MIFARE Sector Data	Card number maximum 64 bits length, 64 bits custom key, 192 bits 3 DES encrypted
Typical Read Range	ISO Card : 4cm ; Keyfob : 2cm Typical read range achieved in air; Different types of metal will cause some degradation Use spacers to space product off metal and improve read range if required
Communication	Standard mode : Wiegand output Secure mode : RS485; connect to ACX 2080 Gateway, ACX 2080 Gateway wiegand output to door access panel
Reader firmware	Reader firmware upgradable in off-line mode
Keep alive	User define 1 bytes "I am alive" data in a certain interval (apply for standard and secure mode)
Multi Card format	Powerful card format handling, 7 x Card number format and 3 x Facility code per card format checking before output Fixed card number output (1 to 64 bits), parity bits disable / enable
Wiegand output	User define wiegand pulse interval for different door access panel
Reader wires (10 wires)	Power, Ground, Wiegand D0 / ABA Data, Wiegand D1 / ABA Clock, ABA card present, RS485(A), RS485(B),
Mounting	Wall Switch Size; designed to mount and cover single gang switch boxes primarily used in the Americas and includes a slotted mounting plate for European and Asian back box spacing
Visual indicator	LED bar in Red, Green & Blue color, user defined mixed color and ON / OFF time interval (ms)
Audio indicator	Internal buzzer, user defined beep sound ON / OFF time interval (ms)
Color	Dark Gray or White
Dimension	90g
Product weight	48 mm x 100 mm x 20 mm
Operating Voltage	9-16 VDC, Linear supply recommended
Operating Current	100mA AVG, 120mA PEAK
Operating Temperature	- 31º to 150º F (-35º to 65º C)
Storage Temperature	-67º to 185º F (-55º to 85º C)
Operating Humidity	5% to 95% relative humidity non-condensing
Certification	IP65, CE 0700, NCC-CCAJ13LP1153T7, RoHS
Panel Connection	Pigtail
Housing Material	Polycarbonate
Cable Distance	Wiegand interface: 500 feet (150 m), RS485 interface: 4000 feet (1200 m) Recommended cable is ALPHA 1295 (22 AWG) 5 conductor minimum stranded with overall shield or equivalent