



PULSE

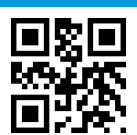
Access Control Series 2014

Pulse 1038 Contactless Smart Card Keypad 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 and with touch sensor keypad technology 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“ feature
- Touch sensor keypad, overcome the membrane keypad problem
- 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



www.pulsesecu.com

Phone: (852) 2151 9018

email: info@pulsesecu.com



TECHNICAL DATA

Model Number	1038
Card Technology	NXP MIFARE Plus S and MIFARE Plus X (2K / 4K bytes)
ISO standard	ISO14443A
Transmit Frequency	13.56MHz
Key Authentication	AES 128 bits diversify key (2 x 128 bits key per sector)
Card Data Security	192 bits KEY, 3 DES encrypted
MIFARE CSN	Random CSN response
MIFARE Sector Data	Card number maximum 64 bits length, 64 bits custom key, 192 bits 3 DES encrypted
Typical Read Range	ISO Card : 6cm ; Keyfob : 4cm 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, Encryption 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) Green LED / ACK, Buzzer, Hold and shield wires,
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
Keypad	Water proof touch sensor technology, 12 Key, 0 to 9, *, #
Dimension	80 mm x 115 mm x 20 mm
Product weight	140g
Operating Voltage	9-16 VDC, Linear supply recommended
Operating Current	100mA AVG, 120mA PEAK
Operating Temperature	- 31° to 150° F (-35° to 65° C)
Storage Temperature	-67° to 185° F (-55° to 85° C)
Operating Humidity	5% to 95% relative humidity non-condensing
Certification	IP65, CE 0700, NCC-CCAJ13LP1152T5, 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

