

novaX



Series 33

Multi-Technology All-in-one Readers

Series 33 Multi-Technology All-in-one Readers incorporate several technologies, including Scramble QR code, Bluetooth, and various kinds of contactless smart card. It is perfect for true-contactless, highly accurate smart cards as well as mobile device across different platforms.

FEATURES

- Support 125KHz, 13.56MHz ISO 14443 A, B & ISO15693, Bluetooth 4.0, and QR code Backlight for compensating the lighting conditions on the QR code paper

SPECIFICATIONS

	3301	3302
QR Code Min. Resolution	NA	5 mil, 1 mil = 0.0254mm
QR Code Resolution	NA	640 x 480
QR Code Scanning Angle	NA	± 60° for left & right, ± 40° for front and back, 360° rotation
QR Code Scanning Range	NA	3cm to 20cm
Bluetooth	Bluebooth 4.0+, 2.4 GHz	
Key Authentication	Custom 128 bits diversify key for custom data model on Mifare Classic, Mifare Plus, Mifare DESFire, LEGIC	
Card Data Security	Max. 64 bits card number mixed with original CSN, custom AES 128 bits key data encryption, CRC16 Apply for custom data models	
Reader Output	Wiegand, OSDP, and novaX Proprietary	
Typical Read Range	125 KHz : 5cm+, 13.56 MHz : 4cm+, Bluetooth Technology : 2m to 10m 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	
Reader Cable	4 wires cable, Power, Ground, RS485(A), RS485(B)	
Audio Indicator	Internal buzzer, user-defined beep sound ON / OFF time interval (ms)	
Color	Black or White	
Dimension	86mm x 86mm x 5mm Flush Mount Inside surface 30mm installation BS1299 electric junction box	
Product Weight	100g	

Operating Voltage	9-16 VDC, Linear supply recommended
Operating Current	120mA AVG, peak 150mA PEAK
Operating Temperature	-13° to 131°F (-25° to 55°C)
Storage Temperature	-67° to 185°F (-55° to 85°C)
Operating Humidity	5% to 95% relative humidity non-condensing
Cable Distance	Wiegand interface : 500 feet (150m) ; RS485 interface: 4000 feet (1200m) Cable: ALPHA 1295 (22 AWG) 5 conductor minimum stranded with overall shield or equivalent recommended