



Ness Access Control Reader Solutions



General Purpose

- Low to Medium Security
- Wiegand output
- Ness Addressable
- Weather resistant
- Part No. 101-014

Ness Ultraprox Reader

The classic Ness Ultraprox reader provides a tough robust access control solution suitable for all low to medium security applications.

Compatible with all Ness access controllers and third party wiegand controllers.

NESS ADDRESSABLE allows up to three readers to be addressed on a Ness D8x/D16x control panel.



HID Compatible

- Fully HID compatible
- Wiegand output
- Weather resistant
- Part No. 101-177

Ness 680 Proximity Reader

Perfect for retro-fitting older access control installations, the Ness 680 Proximity Reader is fully HID compatible making it the ideal reader for repairing or extending HID sites.



High Security

- Mifare Crypto1 encryption
- Wiegand output
- Read/Write Smartcards
- Weather resistant
- Part No. 101-171

Ness Mifare 682 Classic Reader

The Ness Mifare 682 Classic Reader uses **MIFARE CRYPTO1** encryption for highly secure data exchange between the reader and the card or fob.

Compatible with all Ness access controllers and third party wiegand controllers.



High Security Ness Addressable

- Mifare Crypto1 encryption
- Wiegand output
- Read/Write Smartcards
- Ness Addressable
- Weather resistant
- Part No. 101-188

Ness Ultraprox 683N Mifare Reader

The Ness Ultraprox Mifare Reader features the same high security **MIFARE CRYPTO1** encryption as the Ness Mifare 682 Classic Reader.

Compatible with all Ness access controllers and third party wiegand controllers.

NESS ADDRESSABLE allows up to three readers to be addressed on a Ness D8x/D16x control panel. See the Card Compatibility Chart for cards/fob requirements in Standard & Addressed Modes.



Highest Security

- Mifare Crypto1 / DESfire / DESfire EV1 encryption
- Wiegand output
- Read/Write Smartcards
- Weather resistant
- Part No. 101-192

Ness Mifare/DESfire 684 Classic Reader

This reader provides the highest possible security using **MIFARE CRYPTO1 / DESfire / DESfire EV1** encryption.

Compatible with all Ness access controllers and third party wiegand controllers.

SPECIFICATIONS

Model	Ness UltraProx Reader	Ness 680 Proximity Reader	Ness 682 Mifare Classic Reader	Ness 683N UltraProx Mifare Reader	Ness 684 Mifare Classic / DESfire Reader
Ness Part No.	101-014	101-177	101-171	101-188	101-192
Applications	General purpose / Ness Addressable	HID Compatible	High Security	High Security / Ness Addressable	Highest Security
Reader Format	125 Khz Proximity		Mifare 1KB or 4KB Cards, Fobs or Clamshell	Mifare 13.5 Mhz ISO14443 A/B	Mifare / DESfire / DESfire EV1 13.5 Mhz ISO14443 A/B
Compatible Cards	Standard ASK cards	125 Khz HID format Cards and Fobs	Standard Mifare or BQT encoded cards & fobs	Standard Mifare or Ness encoded cards & fobs	Standard Mifare or BQT encoded cards & fobs
Read & Write	Read Only		Yes		
RF Encryption	None		Crypto 1 Mifare		Crypto 1 / DESfire / DESfire EV1
Output Protocol	Wiegand				
Output formats	26 Bit	26-37, 40 Bit (HID compatible)	34 Bit	26 Bit when using Ness Encoded Cards 34 Bit when using Standard Mifare cards	34 Bit
Addressable (Ness format)	Yes	No		Yes (When addressed can only use 101-186 and 187 Cards)	No
Power Requirements	12 – 16 VDC	7 – 16 VDC			
Current Draw	50mA	100mA	70mA		
Typical read Range	65 – 100 mm	65 – 80 mm	20 – 40 mm		
Operating Temp / Humidity	-25°C to +65°C / 90% Max, Non condensing				
Reader Dimensions HxWxD	82 x 48 x 24 mm	84 x 43 mm x 21 mm			
Status LEDs	Green & Red				
Audible Tone	Internal Buzzer	Internal & external Buzzer	Internal Buzzer		
Colour	Black	Charcoal			
Certifications / approvals	CE, C-Tick (compliant)	FCC, CE, C-Tick (compliant)			
IP Rating	IP65				
Warranty	2 years				
Mounting options	Surface Mount	Universal Mounting Plate (BM-UPB)			

CARD COMPATIBILITY CHART

Cards/ Fobs	Ness UltraProx Reader	Ness 680 Proximity Reader	Ness 682 Mifare Classic Reader	Ness 683N UltraProx Mifare Reader		Ness 684 Mifare Classic / DESfire Reader
				STD Mode	Ness Addressed Mode	
101-085 125 Khz Clamshell	✓					
101-086 125 Khz ISO Card	✓					
101-087 125 Khz Keyfob	✓					
101-193B Mifare ISO Card			✓	✓		✓
101-184 Mifare Keyfob			✓	✓		✓
101-186 Mifare ISO Card Ness encoded					✓	
101-187 Mifare Keyfob Ness encoded					✓	
101-193 Mifare ISO Card BQT encoded			✓			✓
101-194 Mifare Keyfob BQT encoded			✓			✓
HID compatible cards		✓				



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