## **DATA SHEET**

## 13.56Mhz Smart Reader EM- Lift/Elevator Modules





Powerful, compact module - ready for building integration

General Specifications										
Power Requirement	- VDC	7-18 VDC Regulated								
Current Consumption	- Average	38ma								
	- Peak	80ma								
Card Read Range*	- Metric	Up to 70 mm								
	- USA	Up to 2.76"								
Operating Temperature	- Metric	-25°C to +65°C								
	- USA	-13°F to +149°F								
Relative Humidity	- % max	90%, operating non condensing								
Reader Dimensions	- Metric	61mm (L) x 30mm (W) x 12mm (D)								
	- USA	2.40" (L) x 1.18" (W) x 0.47" (D)								
Status LED	- Colour	N/A								
Audible Tone		Optional								
Colour finish		Black								
Certifications		FCC, CE, C-tick								
Indoor/outdoor		Indoor								
ROHS		Compliant								
M2000(EM)		*Card/Technology dependent								

Our Lift/Elevator range of Smart Readers is not only versatile, it offers the same features as many of our other product ranges without status LEDs and with optional internal buzzer providing a reader module that can be integrated into lift/Elevator panels and other applications.

The Lift/Elevator Smart Reader range is available in several models to cater for all integration requirements.

We can also provide a 125Khz (26-37,40 bit) model if required.

Model Features																											
Techno	ology				Encode				Encryption				Sector Keys			13.56MHz Credential type and option					Outp	ut Pro	tocol	Other			
Mifare Plus  Miffare Classic	DESfire	Card	Biometric	Keypad	CSN/UID	Sector	Application	Random UID	Diversified Keys	Crypto 1	Mifare Plus	3 DES	AES (optional)	MiPASS 2	MiPASS 3	Customisable	ISO14443A	ISO14443B	Mifare 1K & 4K	Mifare Plus 2K & 4K	DESfire EV14K & 8K	Wiegand 32 Bit	Wiegand 26-199 Bit	Encrypted RS485*	Read / Write	Indoor Use	Tamper option
/		✓			✓	✓			✓	✓				✓			✓		✓			✓			✓	✓	
/		✓			✓	✓			✓	✓						✓	✓		✓				✓	✓	✓	✓	✓
	✓	✓			✓	✓	✓		✓	✓		✓			✓		✓		✓		✓	✓			✓	✓	
<b>/ √</b>	✓	✓			✓	✓	✓	✓	✓	✓	✓	✓	✓			✓	✓		✓	✓	✓		✓	✓	✓	✓	✓
,	Miffare Plus Miffare Classic	√ ·	Card  Card  Milfare Plus	Technology Factors  Biometric  Card  Wilfare Plus	Biometric  Card  DESfire  Miffare Plus	Technology Factors  Keypad  Card  Card  V	Technology Factors  Sector  CSN/UID  Card  Card	Technology Factors  Application  Sector  CSN/UID  Card  Wilfare Plus  Wilfare Plus	Technology Factors  Random UID  Random UID  Random UID  Random UID  Application  CSN/UID  CSN/UID  Card  Application  V  V  V  V  V  V  V  V  V  V  V  V  V	Technology  Authentication Factors  Random UID  CSN/UID  DESfire  Wilfare Plus  Miffare Plus	Technology  Authentication Factors  Diversified Keys  Cand  Cand  Cand  Cand  Cand  Application  Biometric  Card  Application  Sector  Application  Application	Technology  Authentication Factors  Encode  Encode  Crypto 1  Crypto 1  Card  Card	Technology  Authentication Factors  Encode  Encryption  Crypto 1  Crypto 1  Cand  Application  Sector  Cand  Cand	Technology  Authentication Factors  Encode  Encryption  AES (optional)  Crypto 1  Cand  Application  Sector  Sector  Card  Card  Application  Sector  Application  Application  Application  Application  Sector  Application  Application  Application  Application  Application  Application	Technology  Authentication Factors  Encode  Encryption  AES (optional)  ADES  Crypto 1  Card  Ca	Technology  Authentication Factors  Encode  Encryption  AES (optional)  AES (optional)  Orypto 1  Sector Keypad  Application  Milfare Plus  Card  Card  Application  Diversified Keys  Sector  Application  Judiana Plus  Application  Application  Application  Judiana Plus  Application  Application  Application  Judiana Plus	Technology  Authentication Factors  Encode  Encryption  Sector Keys  Milpass 3  Milpass 2  Milpass 2  Crypto 1  Crypto 1  Cand  Cond  Cond	Technology  Authentication Factors  Encode  Encryption  Sector Keys  13.56  Customisable  Milpass 2  Milpass 2  Diversified Keys  Diversified Keys  Displaying Despiration  Cand  Cand  Application  Despiration  Sector Keys  Milpass 3  Diversified Keys  V  V  V  V  V  V  V  V  V  V  V  V  V	Technology  Authentication Factors  Encode  Encryption  Sector Keys  ISO14443A  AES (optional)  Diversified Keys  Card  Card  Sector  Wilfare Plus  Wiffare Plus  Wiffare Classic	Technology  Authentication Factors  Encode  Encryption  Sector Keys  13.56MHz Credent option  Mifare 1K & 4K  Milpass 2  Milpass 3  Diversified Keys  Application  Card  Card	Technology Authentication Factors  Encode Encryption Sector Keys 13.56MHz Credential typoption  Mifare Plus 2 K & 4 K  Customisable Crypto 1  Sector Keys 13.56MHz Credential typoption  Mifare Plus 2 K & 4 K  Customisable Crypto 1  Sector Keys 13.56MHz Credential typoption  Mifare Plus 2 K & 4 K  Mifare Plus 2 K & 4 K  Mifare Plus 2 K & 4 K  Mifare Plus 3 DES  Mifare Plus 3 DES  Mifare Plus 4 K  Mifare Plus 2 K & 4 K  Mifare Plus 2 K & 4 K  Mifare Plus 3 DES  Mifare Plus 4 K  Mifare Plus 4 K  Mifare Plus 5 Card  Mifare Plus 6 Card  Mifare Plus 7 K & 4 K  Mifare Plus 7 K & 4 K  Mifare Plus 8 Mifare Plus 8 Mifare Plus 9 Mifare	Technology  Authentication Factors  Encode  Encryption  Sector Keys  13.56MHz Credential type and option  Milfare Plus 2K & 4K  Milfare 1K & 4K  Milfare 1K & 4K  Milfare Plus 2K & 4K  Milfare Plus 2K & 4K  Milfare Plus 3DES  Sector Keys  Liso14443B  Diversified Keys  Sector Keys  Milfare Plus 2K & 4K  Application  Sector  Sector Keys  Milfare Plus 2K & 4K  Milfare Plus 2K & 4K  Application  Sector  Sector  V  V  V  V  V  V  V  V  V  V  V  V  V	Technology  Authentication Factors  Encode  Encryption  Sector Keys  13.56MHz Credential type and option  Miffare Plus 2K & 4K  Miffare Plus 2K & 4K  Miffare Plus 3DES  Diversified Keys  Diversified Keys  Card  Card  Wiffare Plus  Sector  Card  Wiffare Plus  Sector  Card  Wiffare Plus  Application  DESfire  Wiffare Plus  Wiegand 32 Bit  Wiegand 32 Bit  V  AES (optional)  DESfire  V  V  V  V  V  V  V  V  V  V  V  V  V	Technology  Authentication Factors  Encode  Encode  Encryption  Sector Keys  DESfire EV1 4K & 8K  Customisable  Compliance Plus 2K & 4K  Milfare Plus 3DES  Compliance Plus  Sector  Sector  Milfare Plus  Compliance Plus  Milfare Plus  Sector  Sector  Application  Diversified Keys  Card  Card  Wiegand 32 Bit  Compliance Plus  Application  Sector  Sector  Application  John Compliance Plus  Sector  Sector  Sector  Application  John Compliance Plus  Sector  Sector  Application  John Compliance Plus  John C	Technology  Authentication Factors  Encode  Encryption  Sector Keys  13.56MHz Credential type and Output Protocol  Wiegand 26-199 Bit  Wiegand 32 Bit  Customisable  Sector  Milfare Plus 2K & 4K  Milfare Plus 3DES  Milfare Plus  Sector  CSN/UID  DESfire  Wiegand 32 Bit  Crypto 1  CSN/UID  DESfire  Wiegand 32 Bit  V  V  V  V  V  V  V  V  V  V  V  V  V	Technology  Authentication Factors  Encryption  Sector Keys  13.56MHz Credential type and Output Protocol  Wiegand 26-199 Bit  Wiegand 32 Bit  Customisable  Application  Sector  Sector Keys  Output Protocol  Finding Plus 2K & 4K  Milfare Plus 2K & 4K  Milfare Plus 2K & 4K  Application  Sector  Sector Keys  Output Protocol  Finding Plus 2K & 4K  Milfare Plus 2K & 4K  Milfare Plus 2K & 4K  Application  DESfire  V  V  V  V  V  V  V  V  V  V  V  V  V	Technology  Authentication Factors  Encode  Encryption  Sector Keys  13.56MHz Credential type and Output Protocol  Other Wiegand 26-199 Bit  Wiegand 26-199 Bit  Card  Application  Mifare Plus 2K & 4K  Card  Card  Card  Application  Dessire  Card  Application  Dessire  Card  Application  Dessire  Card  Application  Dessire  Application  Application  Dessire  Application  Technology  Authentication  Factors  Encryption  Sector Keys  Diversified Resad / Write  Application  Diversified Keys  Application  Applic