



## General Specifications

Power Requirement*	- VDC	6-18 VDC Regulated
Current Consumption	- Average	27.1ma
	- Peak	73.8ma
Card Read Range	- Metric	20mm - 40 mm
	- USA	0.8" - 1.6"
Operating Temperature	- Metric	-25°C to +65°C
	- USA	-13°F to +149°F
Relative Humidity	- % max	90%, operating non condensing
Reader Dimensions	- Metric	84.55mm (L) x 42.95mm (W) x 20.7mm (D)
	- USA	3.33" (L) x 1.69" (W) x 0.815" (D)
Status LED's	- Colour	Green, Red & orange
Audible Tone		Internal & external buzzer control
Colour finish		Charcoal
Certifications		FCC, CE, C-tick
IP Rating		IP65
ROHS		Compliant

M2000

\*At reader terminals

## Powerfully Versatile, Elegantly Compact

The Miniguard range of readers is stylish as well as functional with its low profile and slimline shape, allowing easy installation on door architraves or mullions where larger readers will not fit. It can be mounted directly on a metal door frame with no adverse effect to the reader's function. A universal back plate is also available for mounting on most international standard gang boxes.

Available in several models, the Miniguard for all security requirements large or small and offers a solution for all applications whether driven by budget or functionality.

## Model Features

BM	Technology			Authentication Factors		Encode				Encryption			Sector Keys			13.56MHz Credential type and option				Output Protocol		Other								
	Mifare Classic	Mifare Plus	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 EV1 4K & 8K	Wiegand 32 BIT	Wiegand 26-199 BIT	Encrypted RS485*	Read / Write	Indoor / Outdoor	Tamper option	
BM681	X			X			X													X			X							X
BM682	X			X			X	X			X	X			X				X	X	X		X				X	X		X
BM683	X			X			X	X			X	X					X	X	X	X				X	X	X	X	X	X	X
BM684			X	X			X	X	X		X	X	X			X			X	X	X		X	X			X	X		X
BM686	X	X	X	X			X	X	X	X	X	X	X	X			X	X	X	X	X	X	X	X	X	X	X	X	X	X

\* Requires High Security Module (HSM) AES 128bit encryption