

Borer's Intelligent Mifare Reader is designed as a complete door entry solution for use in online access control applications.

The **Mifare Reader** provides full online and offline validation and decision making capabilities at the point of entry, eliminating the need for a control panel, wall box and mains power supply.

The elimination of unnecessary equipment together with a low energy profile delivers a 'cleaner, leaner and greener' solution, reducing lifetime cost of ownership.

The Intelligent **Mifare Reader** supports Mifare and Desfire proximity security badges, tags and key fobs.

The Mifare card is an open standard (ISO 14443A) technology where one card can be applied across a range of applications including: banking, travel card, cashless vending, access control and attendance recording.



BLACK - Part No. 04-127



CLOUD GREY - Part No. 04-126

Features:

Complete Single Door Access Control Solution in one reader head

Card Only or Card and PIN options supplied as standard

Dual Database of Cardholders and Access Rights held at every reader head, allowing fall back to the last known good database in the event of a data corruption or network interruption during database download

Large Integrated Database with a total capacity of up to 120,000 card holders/transactions

Magnetically Assisted Omron Relay for energy efficient switching of electric releases

Four State Supervised Inputs for door monitor, request-to-exit, tamper and spare

Two bicolour LEDs and polyphonic sounder gives clear indication of card transaction and reader status

Integrated Door Ajar Alarm Sounder

Optional 'PoE Lock Manager' Enhances Security, extends lock life and reduces the energy consumed by most solenoid operated locks and strikes by up to 90%

Works with Borer Midspan Bridge technology which delivers power and data over a single CAT5e/6 cable

Benefits:

Developed using 'Clean Design' principles to reduce component count and energy consumption

'Plug and Play' makes for faster installation and commissioning

Distributed intelligence allows decisions to be made at the point of access

TCP/IP Network connection via Borer Bridge facilitates direct connectivity to the central management system and database

Very low energy consumption leads to savings in cost of energy

Eliminates the requirement for separate control panel, wall box and power supply reducing bespoke cabling and installation complexity with associated costs

Uses open format Mifare cards which, unlike systems that use proprietary and exclusive formats, eliminates single supplier dependence and benefits the user with lower cost for replacement cards

Technical

Installation:	Borer access control readers come with a matching backbox for surface mounting or can be mounted directly on to a single width electrical box
Colour:	Black or Cloud Grey
Power Supply:	65mA quiescent, 90mA @ 12 Volts DC
Reader Head Dimensions/Weight:	120 x 78 x 26 mm / 190g
Surface Mount Box Dimensions/Weight	120 x 78 x 26 mm / 66g
Environmental Humidity Range:	Interior or exterior / 5% to 95% non-condensing
Digital Outputs:	Lock relay (5A peak, 3A continuous @ 30v DC, NO and NC contacts), polyphonic tones, tri state colour LEDs
Digital Inputs:	Supervised door monitor, REX, tamper circuit
Keypad:	12 button membrane keypad
PIN:	4 digit system generated random number or 4 digit user issued number
Reader Database:	48 sets of reader rules, 16 scheduled holiday dates, 2 x 15,000 cardholders / transactions (Version 1), 2 x 60,000 cardholders (Version 2), 14 timezones
Data Retention without Power:	10 years
Network Connection:	Controller Area Network, ISO 11898 standard for serial data communications
Cable Type:	CAT5e/6 Cable
Transmission Network:	CSMA - CD (Carrier Sense Multiple Access with Collision Detection)
Data Rate:	Autosensing: -50, 125 or 250kbps
Operating Temperature Range:	-20 to 60 C (-4 to 140 F)
Read Range:	Up to 80mm; range may vary with Mifare token type and install environment
Smart Card Technology:	Mifare (13.56mHz), ISO 14443A standard cards or tokens

