The **Access Platform BR20** is a keypad-enabled magnetic stripe card reader for OEMs that provides a multi-track, multi-format, ruggedized, indoor/outdoor high security access device.

The Mercury BR20's die cast metal housing incorporates a solid state, piezo-electric keypad for a wide environmental operating range, making it suitable for nearly any setting.

Capable of supporting variable bit patterns in either Wiegand or clock and data, the BR20 also provides bi-color visual indicators with audible feedback on key selection. The LED and the audible annunciators are controlled using standard TTL voltage levels. The card reader accepts low or high-coercivity magnetic stripe cards with standard track 2 encoding. Track 1 and track 3 versions are also available. A one million pass read head is standard. The keypad's EVERSWITCH technology provides a solid state, piezo-electric switch for maximum reliability and durability.

All signal lines are protected from Electrostatic Discharge (ESD). The nominal distance between the reader and the controller is 500 feet.

Application Notes

While Mercury controllers empower OEMs to configure systems that deploy a range of access technologies, our field-proven card readers and keypad interfaces simplify the sourcing of additional hardware components. A rugged, reliable reader interface in Mercury's building block approach to system configuration, the BR20 is rated for a wide range of environmental operation, suitable for indoor and outdoor use. The reader is brushed aluminum with anodized markings and is mounted with all stainless steel hardware.

Benefits
- Easily add keypad functionality
- Field-proven reliability in even harshest environments
- Compatible with practically any access control panel

Features
- Bi-color LED and annunciation
- Ruggedized metal housing
- Multi-track reading
- Multi-format programmability
- Static discharge protection
- Self Test
- 12 position piezo-electric keypad
- 2 year warranty

Proven Platforms for the Future
Reliable. Proven. Innovative Access Control.

Technical Specifications

Card:

Encoding:	75 BPI, Aiken Biphase (2F2)
Read Speed:	3 to 50 inches per second

Mechanical:

Case:	Aluminum alloy 6061
Finish:	Brushed, annodized markings
Size:	2.59"W x 1.30"H x 5.5"L [66 mm x 33 mm x 140 mm]
Weight:	9 oz. [260g]
Mounting:	One security screw
Connection:	6 conductor cable w/connector

Electrical:

Voltage:	+5 Vdc or +12 Vdc
Current:	20 milliamperes typical
Wiring:	500 ft. (150m) maximum
Data Output:	data 1/data 0 (Wiegand pulses), or clock and data (magnetic)

Annunciators:

LEDs:	Red & Green
LED control:	1 wire or 2 wire Buzzer

Keypad:

Layout:	12-position, solid state
Feedback:	Audible and visual
Data Interface:	Multiplexed on data pins

Environmental:

Operating Temperature:	-40°C to +75°C
Humidity	95%
(weatherized option)	100%

Standards:

Standards:	CE compliant, RoHS

For More Information:

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