# ACCESS CONTROL ASP08 / ASP26



#### PROXIMTY READER PLUS KEYPAD

Model: ASP08 ILLUMINATED

Output formats: Prox. Card Wiegand 26 Keypad 8 Bit Burst

The Prox. Card Output is customizable for other Wiegand formats.

Power Supply 10 to 24 VDC Power Consumption: Max 150 mA

Transmitter/Receiver frequency: 125Khz HID Mounting: Universal USA and EUROPE Environment: IP68; 100% relative humidity

Operating Temperature: - 30 to + 65°C (-22 to 150 F)

Dimensions: 120 x 90 x 20 (4,72 / 3.54 /0.79)

Antitamper Optical protection

#### **Operation Modes:**

The ASP08 is equipped with 2 electronically interlocked devices. The Proximity Reader and the Piezoelectric Keypad.

ASP08 supports the following operation modes:

- 1. Prox Pin. Present Prox card. The unit will read the content and send it over the Data wires to the host. Enter PIN code. The unit will send each digit over the same Data wires to the host. The Keypad and the Prox reader are interlocked so that when one is functioning the other is inhibited until the data is transmitted.
- 2. Prox Only. The prox electronics is independently communicating via Data wires.

#### Verification

Power up the unit. During the first 2 seconds the unit will activate the buzzer and the Yellow LED 3 times. In the same time the RED or the Green LED will come ON depending on the Central Computer setup.

Present a valid HID encrypted card at 5 cm distance maximum. The unit will activate the Buzzer and the Yellow Led once.

Each key press will activate the Buzzer and flash the Red or Green Led (the one that active).

#### Wiring

COLOR	FUNCTION	ELECTRICAL FUNCTION	
RED	Input Voltage	10 to 24 VDC	
BLACK	Ground		
GREEN	Data 0	Open collector 1Kohm pull-up to internal +5V	
WHITE	Data 1	Open collector 1Kohm pull-up to internal +5V	
BROWN	LED Input	No Voltage	
BLUE	CCTV output	Open collector 0,250 a activated with each key for 30 sec	
VIOLET	Housing Ground		
ORANGE	Buffered Input		
GREY	Tamper Output	Open collector 0,100 A "Low" when light sensed	

26 BIT WIEGAND SPECIFICATIONSW

## ACCESS CONTROL ASP08 / ASP26

When the LED control input is pulled low, the GREEN LED will be ON and the RED LED will be OFF. When the input goes high the RED LED is ON and the GREEN LED is OFF. The RED or GREEN LED will flash with each key press. The LED control input is pulled to the internal +5v with a 2.2K resistor.

The data is sent at 2 millisecond. per bit with a pulse duration of 70 µsec. A Buzzer beeps with each key press.

## DATA FORMAT

### PIN data in 8 Bit burst output format:

Each Key press generates the defined 8 bit Output as shown:

KEY	OUTPUT	KEY	Output
0	11110000	6	10010110
1	11100001	7	10000111
2	11010010	8	01111000
3	11000011	9	01101001
4	10110100	*	01011010
5	10100101	#	01001011

#### Card data 26 WIEGAND output format.

PSSSSSS NNNNNNNNNNNNNN P

BIT 1 2 9 10 25 26

BIT 1 is an even parity for the following 12 bits. The sum of bits 1-13 is even.

BITS 2-9 are the F/C the card presented from 000 to 255.

BITS 10-25 this is the card number presented .

Leading 0's are added as required. Bit 10 is most significant.

BIT 26 Odd parity over previous 12 bits. The sum of bits 14-26 is odd.

EXAMPLE: A card code of 123 entered:

1 0 0 0 0 0 1 0 0 0 0 0 0 0 0 0 0 0 1 1 1 1 0 1 1 1 (F/C 004)

The data is sent at 2 msec per bit with pulse duration of 70  $\mu$ sec. A Buzzer beeps each time card is presented.

- 1. **Blue Wire -** PRESSING any key on the keypad will generate a 30 seconds 0.25 amp intermittent duty grounding output.
- Orange Wire When the Hold Line, Orange wire, is pulled "low", any codes entered on the keypad are stored in the buffer. When the Hold Line is released to logic "high" – the buffered code data is sent
- 3. Grey Wire When the photodiode senses ambient light the wire is pulled "LOW" NOTE: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:
  - Reorient or relocate the receiving antenna.
  - Increase the separation between the equipment and receiver.
  - Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
  - Consult the dealer or an experienced radio/TV technician for help.

Changes or modifications to this equipment not expressly approved by the party responsible for compliance Baran Advanced Technologies (86) LTD. could void the user's authority to operate the equipment.

