

## Proximity Reader AP25/GP25

<b>Power Requirements</b>	12 Volts regulated DC @ 65mA typical A linear regulator is needed
<b>Output Interface</b>	Wiegand, Magstripe, RS-232(9.6KBaud Rate)
<b>Typical Maximum Read</b>	Range 25cm with ISO card
<b>Frequency</b>	125KHz standard
<b>Dimensions</b>	12 x 4.6 x 2.35 cm
<b>Temperature Range</b>	-10 to 60 Deg C
<b>Output Assignment</b>	
<b>Red</b>	Power +12VDC
<b>Black</b>	Ground
<b>White</b>	Magstripe clock & Wiegand data1, with internal 4K7 pull up
<b>Green</b>	RS232 data, Magstripe data & Wiegand data0, with internal 4K7 (pull up only for Wiegand and Magstripe)
<b>Orange</b>	Card Present Output with internal 4K7 pull up
<b>Yellow</b>	Program input
<b>Blue</b>	External Beep. Positive Logic 5V on
<b>Brown</b>	External LED. Positive Logic 5V on

### Output Format

The output format can be customer programmed. The available formats are Wigand, Magstripe and Serial ASCII(RS232).

Color	Wiegand	Magstripe	Serial ASCII(RS232)
Red	Power +12V	Power +12V	Power +12V
Black	Ground	Ground	Ground
White	Data1	Clock(Strobe)	No Connection
Green	Data0	Data	TX Data
Yellow	Connect to White	Connect to Orange	No Connection
Orange	No Connection	Card Present	No Connection

### Data Structure:

Serial ASCII(RS232)Baud Rate: 9600, No parity, 8 data bits, 1stop bit

STX(02HEX)	DATA(10 HEX CHARACTERS)	CR	LF	ETX(03 HEX)
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### Magstripe Emulation: (ABA Track2)

Speed: Simulated to 40 IPS(Inch per Second)

10 LEADING ZEROS	SS	DATA (14 DIGITS)	ES	LRC	10 TRILING ZEROS
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### Wiegand: (Format-26 Bits)

0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25
P	S	S	S	S	S	S	S	S	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	C	P
P	E	E	E	E	E	E	E	E	E	E	E	E													
													O	O	O	O	O	O	O	O	O	O	O	O	P
SUMMED FOR EVEN PARITY (E)													SUMMED FOR ODD PARITY (O)												