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Proximity Reader GP20

Power Requirements	5~13.5 Volts regulated DC @ 65 mA typical with a 12V				
Fower Requirements	supply. A linear regulator is recommended.				
Output Interface	Wiegand, Magstripe, 9600 Baud Serial ASCII(RS232)				
Typical Maximum Read	Range 20cm with ISO card				
Frequency	125KHz standard				
Broadcase Power	Less than 0.5mW				
Bandwidth	5KHz				
Modulation	ASK				
Dimensions	7.8 × 4.3 × 1.5cm				
Temperature Range	-10 to 60 Deg C				

Output Assignment

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Red	Power + VDC
Black	Ground
White	Magstripe clock & Wiegand1, with internal 4K7 pull up
Green	RS232 data, Magstripe data & Wiegand0, with internal 4K7pull up
	(pull up only for Wiegand and Magstripe)
Orange	Card Present Output with internal 4K7 pull up
Yellow	Program Input
Blue	No Connection
Brown	No Connection

Output Format

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

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

Data Structure

Serial ASCII(RS-232)Baud Rate: 9600, No parity, 8 data dits,1stop bit

STX(02 HEX)	DATA(10 HEX CHARACTERS)	CR	LF	ETX(03 HEX)
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Magstripe Emulation:(ABA Track 2)

Speed: Simulated to 40 IPS (Inch per Second)

10 LEADING ZEROS SS DATA (14 DIGITS) ES LRC 10 TRAILING ZEROS

Wiegand:(Format-26 Bit)