Proximity Reader GP20

Power Requirements	5~13.5 Volts regulated DC. 90 mA Max with a 12VDC.
Output Interface	Wiegand，Magstripe，9.6K Baud Serial ASCII(RS232)
Typical Maximum Read	Range 20cm with ISO card
Frequency	125KHz band , -28.16 dBuA/m
Dimensions	7.8 × 4.3 × 1.5 cm
Temperature Range	-10 to 60 Deg C

Output Assignment

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

<p style="color:red">WARNING! Don't touch signal lines with power line.</p>

Output Format

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

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

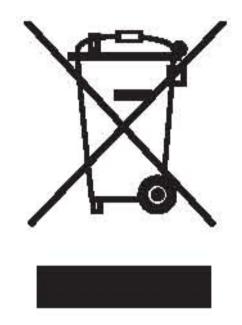| STX(02 HEX)	DATA(10 HEX CHARACTERS)	CR	LF	ETX(03 HEX)

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)

Waste Electrical and Electronic Equipment (WEEE)
This symbol means that according to local laws and regulations your product and/or its battery shall be disposed of separately from household waste. When this product reaches its end of life, take it to a collection point designated by local authorities. Proper recycling of your product will protect human health and the environment.

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