Proximity Reader GP20 (5~13.5 Volts Version)

Power Requirements 5~13.5 Volts regulated DC @ 65 mA typical with a 12V

supply. A linear regulator is needed.

Output Interface

Wiegand, Magstripe, 9.6K Baud Serial ASCII (RS232)

Maximum Read Range

20cm @ 13.5 VDC and 13cm @ 5V in ideal conditions

Frequency Dimensions

125KHz standard 7.8 x 4.3 x 1.5cm

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 & Wiegando, with internal 4K7 pull 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

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

Wiegand (26 bits)			Magstripe (ABA TK2)		Serial ASCII (RS232)	
	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 (RS232): Baud 9600, No Parity, 8 data bits,1 stop 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: 26 bits

MANUAL NO.: GM950039