

904.201.14 RFID/2 13.56MHz TTL module

904.202.14 RFID/2 13.56MHz Buffered module

Proximity R/W modules

for passive ISO14443A/B, and ISO15693 inductive tags.



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Transponder type
Interface
Reading range
Audio-visual indication
Power supply
Dimensions
Temperature range

ISO14443A – ISO15693 standard – SR176 – SR1X4K
Electrical: According to model p/n and configuration wires.
Data Format: According to configuration wires.
About 3 cm, with ISO card, in good conditions.
Don't mount the reader directly on metal surface.
Two LEDs (Red and Green) driven by connecting the Grey and Yellow wires to GND, respectively. If these wires are not connected, the Red LED is still on as the module is powered, turns off in case of good decode, then turns back on only when the tag exits the reading range, while the Green LED blinks for a while in case of good decode.
904.201.14 --- 5 Vdc. (+/-10%), 65mA typical, 100mA max.
904.202.14 --- 12 Vdc. (9..18V) , 65mA typical, 100mA max.
101 x 44 x 23 mm (outline)
-20° to +60°C.



904.201.14 Colors Output Assignments

	CLKDATA	SERIAL TTL	WIEGAND*
Red	Power 5 Vdc		
Blue	GND		
Yellow	GREEN LED command (to Gnd)		
Grey	RED LED command (to Gnd)		
Pink	Clock	wired with Brown	Data1
White	Data	TXD	Data0
Green	open	RXD	GND
Brown	Reserved for configuration and firmware update		

904.202.14 Colors Output Assignments

	SERIAL RS232	WIEGAND*
Red	Power 12V dc	
Blue	GND	
Yellow	GREEN LED command (to Gnd)	
Grey	RED LED command (to Gnd)	
Pink	open	Data1
White	TXD	open
Green	RXD	wired with Brown
Brown		Data0

Connector

The 904.201.14 is supplied with a 8-pin MOLEX connector. It is factory configured for using (as a magnetic emulation reader) with TMC 914.003.20 HotMAX boards. Connection to PROX (and TRAX) terminals is also possible changing the pins order and reducing the connector as shown in the rightmost table.

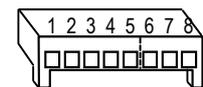
Note: to modify the pin connections or change the connector size, just press a little with a screwdriver into the corresponding rectangular hole and pull the wire at the same time. Then re-insert it in the required position.

Output Assignment for TMC MAX

1	Blue	GND
2	Red	Power 5 Vdc
3	Pink	Clock Output
4		
5	White	Data Output
6		
7	Yellow	GREEN LED
8	Grey	RED LED

Output Assignment for TMC PROX & TRAX

5	Red	Power 5Vdc
4	Blue	GND
3	White	Data Output
2	Pink	Clock Output
1		(n.c. battery aside)



Data transmission

Data are transmitted in magstripe reader emulation (Clk&Data), or serial interface at 57600,n,8,1 with ASCII protocol, or Wiegand* 26bit. Commands to the R/W module can be issued only using the serial interface, with any TTY terminal emulator or serial communication program (a TTL/USB conversion cable, p/n 908.000.20, is available for 904.201.14). For further details and a list of the available commands/answers and their format please refer to the "RFID 13.56MHz Manual", that can be downloaded from Axesstmc web site <http://www.axesstmc.com/>, in the *Manuals* section of the *Partners Area*.

Autoread configuration

The modules are preprogrammed for automatic retrieving and transmission of the UID code always present in all tags, when a card enters in the field range. The modules can also be programmed for reading and transmission of some other content of the card: please refer to the above mentioned "RFID 13.56MHz Manual" for the possible options.

Default UID Output Format (* Wiegand output: when available)

	CLKDATA	SERIAL 57600,N,8,1	WIEGAND*
ISO14443A (mifare [®])	4 bytes to 10 digit :2796021616?>	4 bytes to 10 digit 2796021616<CR>	LSB 26 bit 16759248
ISO15693 ISO14443B (SR176, SR1X4K)	8 bytes to 20 digit (2+2+4)→ (5+5+10) :53250021984003940284?>	8 bytes to 20 digit (2+2+4)→ (5+5+10) 53250021984003940284<CR>	LSB 26 bit 16718364

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) this device may not cause harmful interference, and (2) this device must accept any interference. Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

INSTRUCTIONS FOR FCC ID LABELING

Module type: transmitter 90401-14

FCC-ID: SYL90401-14

This intends to inform you how to specify the FCC ID of our transmitter module 90401-14 on your final product. Based on the Public Notice from FCC, the product into which our transmitter module is installed must display a label referring to the enclosed module. The label should use wording such as "Contains transmitter module FCC ID: SYL90401-14" or "Contains FCC ID: SYL90401-14", any similar wording with the same meaning may be used.

