

# MODULO METRO

BACK ISSUING MODULE FOR  
TURNSTILE APPLICATIONS

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## MANUALE TECNICO

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## **1 GENERALITIES**

The METRO module is one of the accessories of the ENC899 module and allows issuing of a validated ticket from rear side of the module towards the top.

This application is employed mainly in turnstiles for access control to shows, exhibitions, underground railway stations and amusement parks.

## **2 INSTALLATION**

To combine the ENC899 e METRO modules, simply place them together and fasten them with two M3x6TC screws.

The ticket is transported by the means of rubberized rollers and suitable counter part rollers thank to a C.C. motor that actions a series of gears placed outside the right flank of the subunit.

## **3 CONNECTIONS**

### **3.1 Connector I/O CN 1**

This connector holds the signal generated by the optional optic sensor OP3 and the signal for the dual directional management C.C. motor for ticket transport.

The pinout of the CN 1connector in the following:

Pin 1 PH3  
Pin 2 M\_ON  
Pin 3 N.C.  
Pin 4 N.C.

### **3.2 INTERFACE CONNECTOR CN 2**

In this connector there are other control signals and power supply generated by the CPU card of the ENC899 module.

The pinout of the CN 1 è la seguente:

Connector is the following:

Pin 1	FD 0	Pin 2	FD 1
Pin 3	FD 2	Pin 4	FD 3
Pin 5	Vcc	Pin 6	Vcc
Pin 7	GND	Pin 8	GND
Pin 9	Vdd	Pin 10	Vdd

### **3.3 MOTOR CONNECTOR CN3**

In this connector there is the command for the C.C. motor for the ticket transport.

The pinout of CN3 is the following:

Pin 1 MOT+  
Pin 2 MOT-

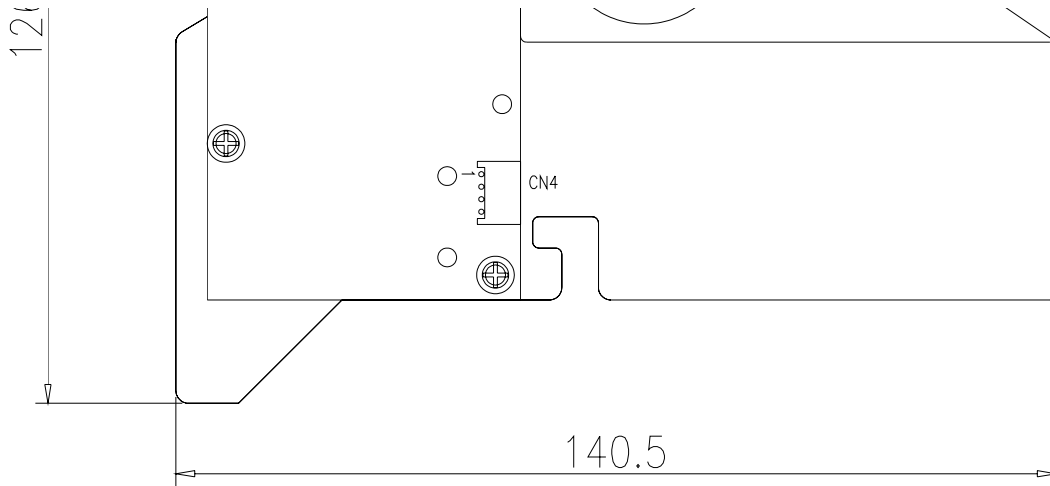
### **3.4 OPTC SENSOR CONNECTOR CN 4**

This connector connects the external optic sensor to the interface card.

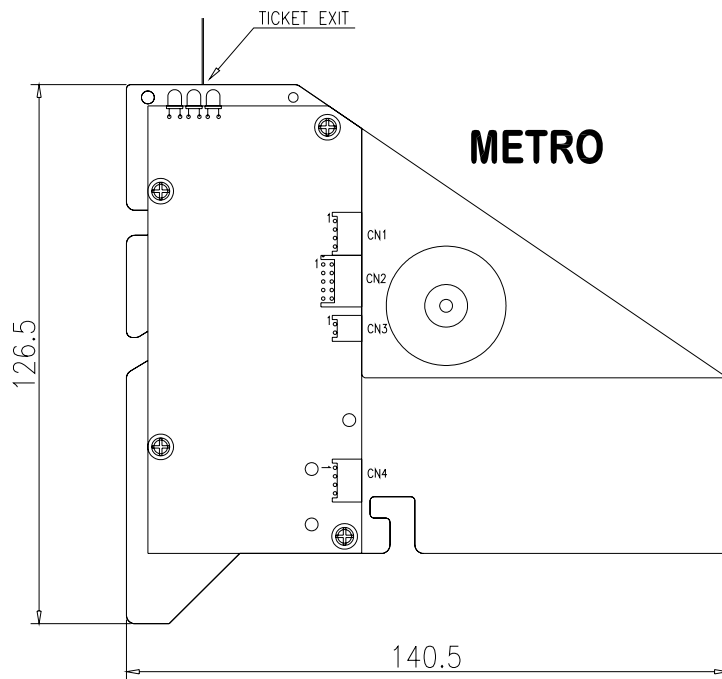
The pinout of the CN4 connector in the following:

- Pin 1 RES+
- Pin 2 LED IN
- Pin 3 Vcc
- Pin 4 RES-

**3.5 LAYOUT AD019 INT. METRO**



**4 METRO SUB UNIT DIMENSIONS**



### 5. ENC899 + METRO MODULE DIMENSIONS

