

Introduction

The 4channel Box Expander is an expansion module for the acquisition of three analogue channels and a digital channel for Start Next and Basic devices.

Installation

Important information regarding installation - READ CAREFULLY

- Keep box and cables away from electro-magnetic sources such as coils, sockets, candles, etc.
- Cover the unused connectors of the boxes with the caps provided.

Install the boxes in areas which are both accessible and safe. We advise you to fix the boxes to a rigid part of the vehicle (e.g. the frame) using the plastic Velcro provided. We remind you that you can connect up to three boxes to a single product.

Connections

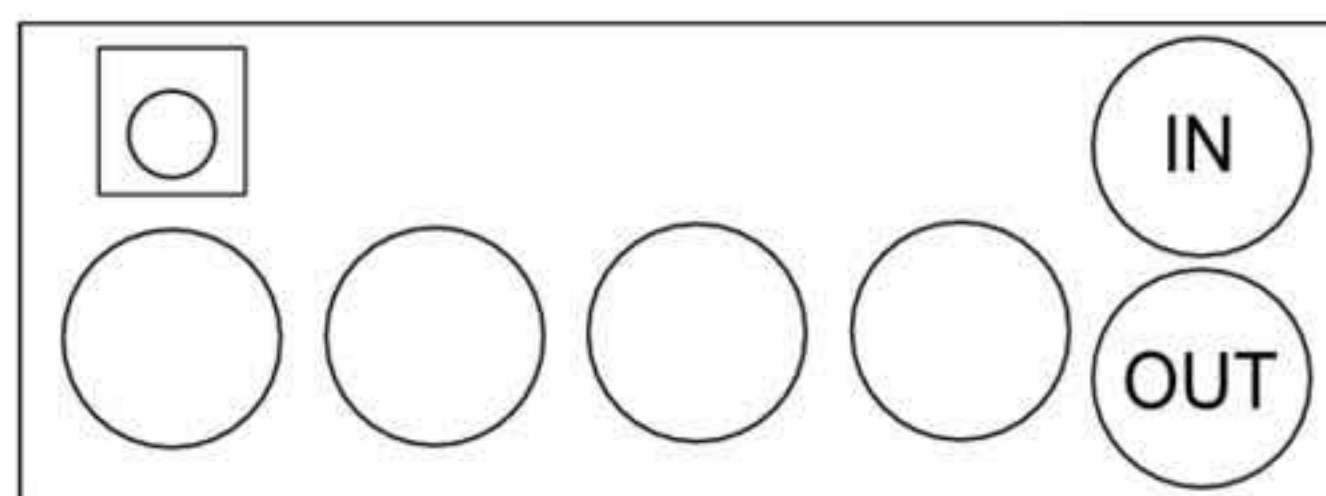
Before connecting, it is necessary to set the box number through the rotating selector placed on the front in the top left hand corner. The boxes must be installed in series at the start; **it is not necessary to number them in sequence** but it is possible to set the box number based on connection requirements. **Do not set the same number on boxes connected to the same device.**

The input and output for the communication between the two devices are placed vertically on the front right part of the box. Connect the extension cable between the equipment and, in sequence, the first box on the **OUT** connector.

To install any other box, connect the extension cable between the **IN** connector of the previous box and the **OUT** connector of the next box.

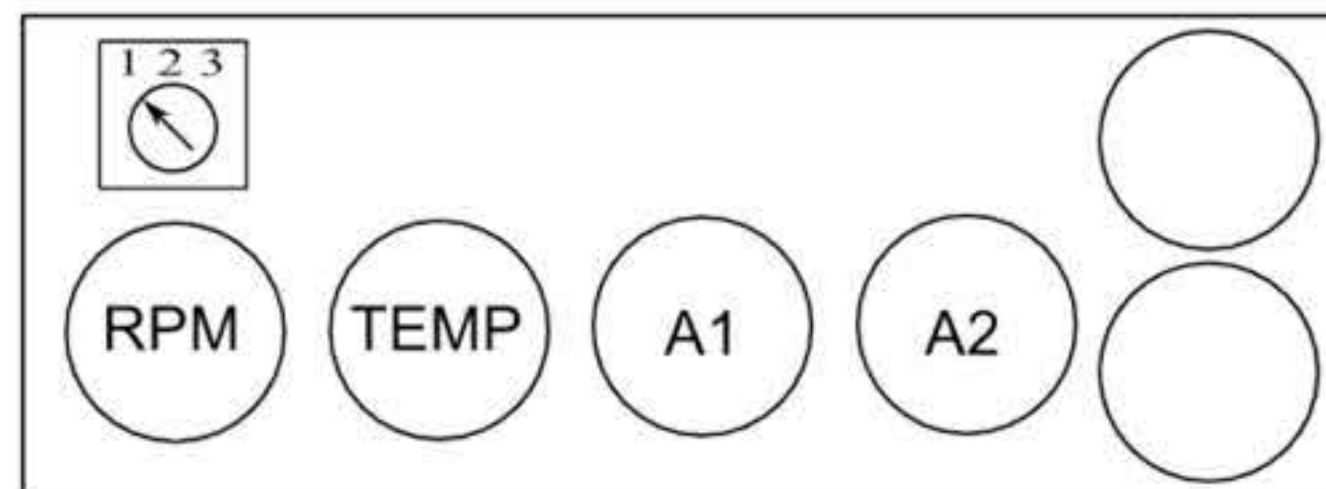
The extension cable included in the package is 50 cm long; if it isn't long enough, use the optional 50 cm SSBTBO50 extension cables.

If you wish to connect the external SS12V100 power plug, connect in sequence the 5-pole connector to the **IN** connector of the last box, or cover the **IN** connector of the last box with the red cap included in the Start package to protect the plug.



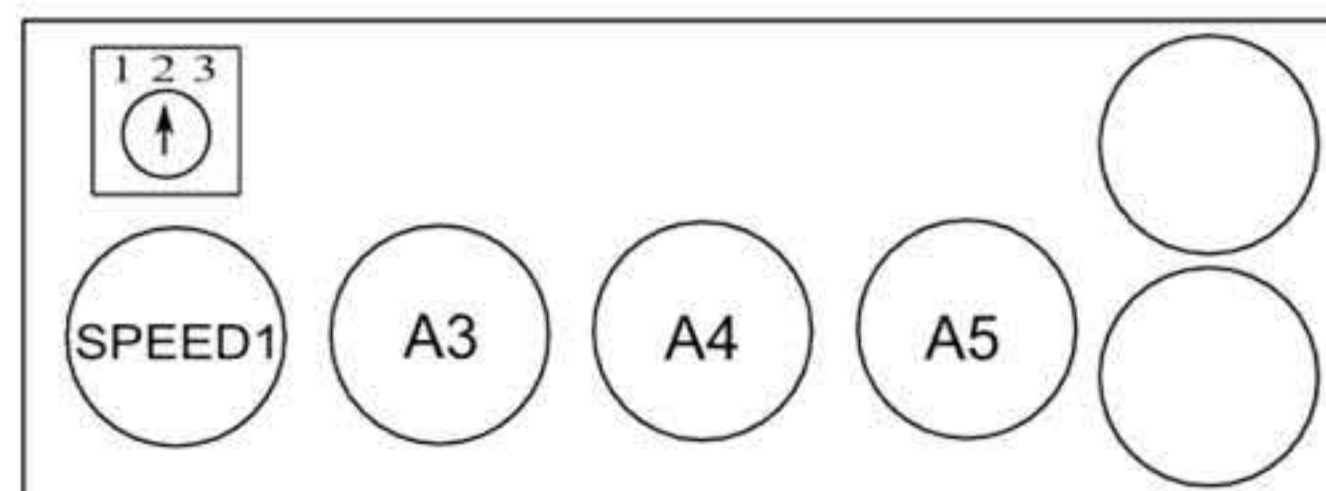
BOX N1

The first connector to the left on box No.1 (in other words, the rotating switch set on number 1) is for the RPM input (**RPM**); you cannot connect a speed to Box 1's digital channel. The second connector from the left is for the SSWT100 temperature sensor (**TEMP**), if this sensor is not available, leave this entry free. The remaining 4-pole connectors are generic analogical inputs (**A1**, **A2**). The image on the side shows the denomination of all the channels.



BOX N2

The first connector on the left of box No. 2 is reserved to the first speed (**SPEED1**), while the others are generic analogical inputs (**A3**, **A4**, **A5**). The image on the side shows the denomination of all the channels.



BOX N3

The first connector on the left of box No.3 is for second speed (**SPEED2**), all the others are general analogical entries (**A6**, **A7**, **A8**), in the image next to the names of all the channels.

