Important:
Before you can use this switch,
you have to use the signal setup menu first!

2014

Manual MS16

We take care
WETRONIC

Preface

Thank you for purchasing the Wetronic MS16 Multiswitch module. With this manual we will help you with installing the multiswitch in both your transmitter and model. It's important for us that this manual is as clear as possible for you. If you still have any questions please contact us at:

support@wetronic.nl

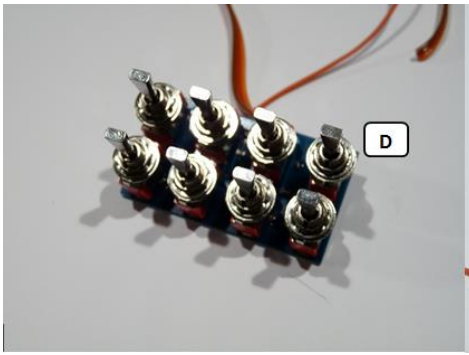
Technical Specifications:

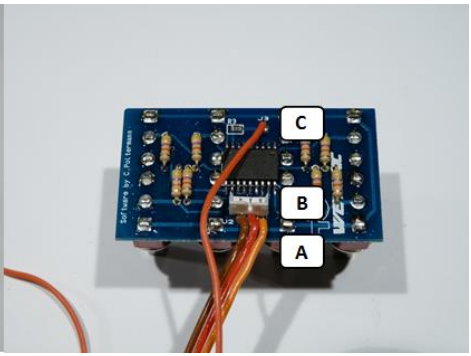
Encoder:	
Dimensions:	55x30mm
Voltage:	5V DC
Power Consumption:	<30mA
Decoder:	
Dimensions:	46x27x10mm
Voltage:	5-6V DC
Power Consumption:	20-200mA
Number of outputs:	16
16 outputs:	16x 0,2A / 8x 0,2A + 8x 2A / 16x 2A

Index

Preface 2
Technical Specifications: 2
Overview encoder: 4
Overview decoder: 5
Installation in the transmitter: 6
Installation in the model. 7
Signal Setup for the first use 8
    Signal setup for the MS16: 8
Memory / Puls setup 9
    Memory / Puls Setup 9
Examples of connecting 10
    Connecting LEDS to the outputs 10
    Connecting an small DC motor 10

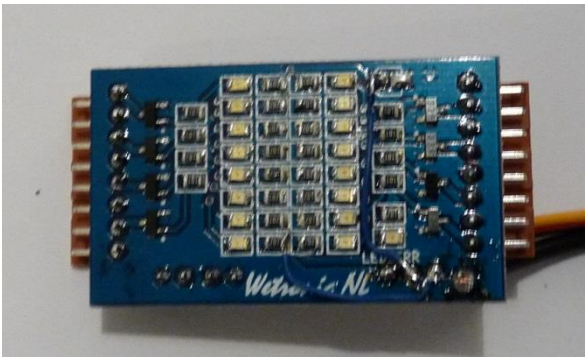
Overview encoder:

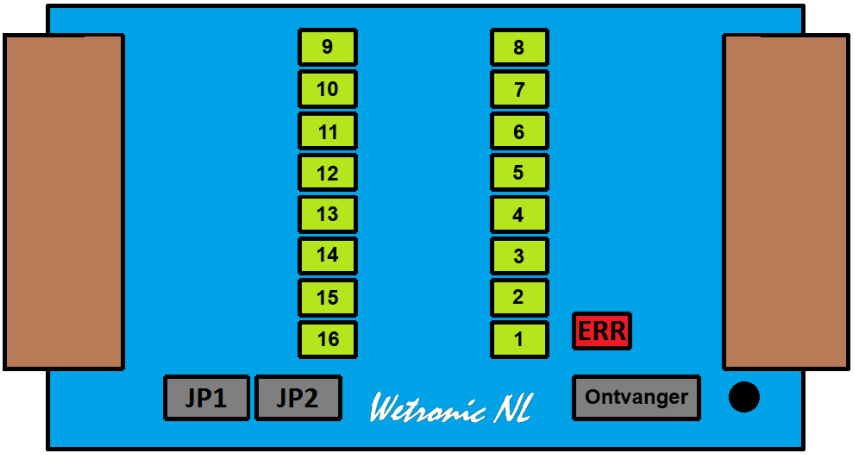




	Description	Explanation
A	Signal cable	3 core cable
B	Signal connector	Multi out connector
C	Channel cable	Servo 1 core cable
D	Switches 8x	8x Switch (on)-off-(on)

Overview decoder:

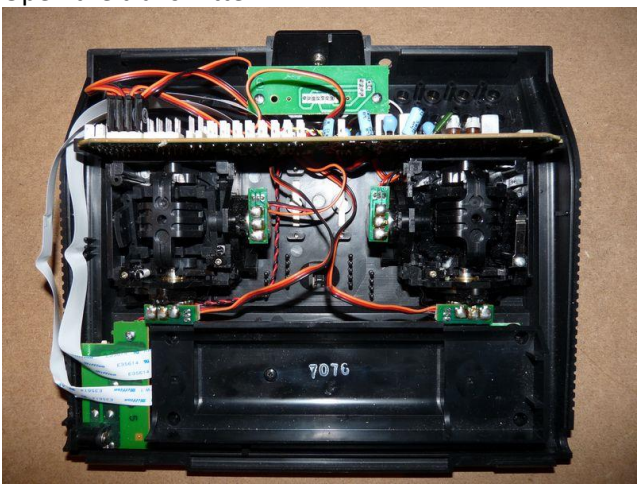




	Description	Explanation
1-16	16 outputs	Green LED
ERR	Error led	Red LED
	Sign. Setup	Signal Setup
	Mem. Setup	Memory Setup
Ont.	Receiver	Servo cable to receiver
•	Ground	Ground wire for the outputs

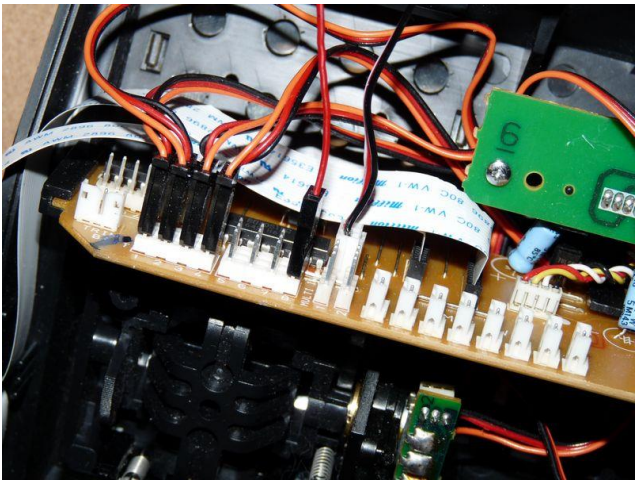
Installation in the transmitter:

1. Open the transmitter.

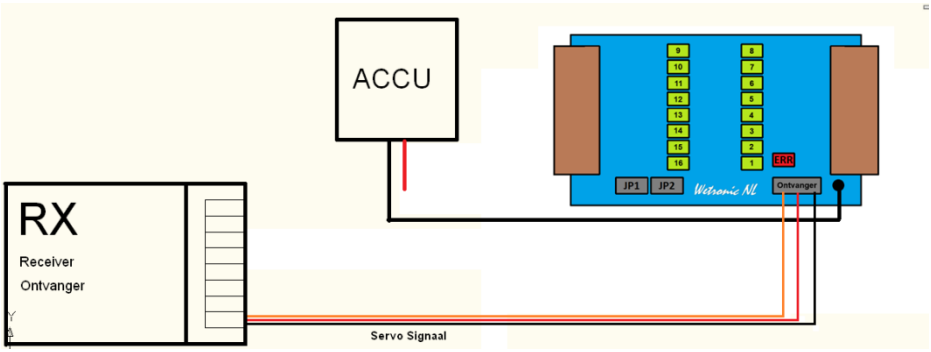


2. Mount the encoder with the 8 nuts tot he transmitter case.

3. Connect the encoder in the transmitter
   - White connector on the multi out.
   - Black servo connector on the channel 6,7 or 8 (free to choose)
   (The channel chosen in the transmitter is the channel used on the receiver later on)



Installation in the model.



Signal Setup for the first use

After installation of the module it's important that the signal setup mode is done correctly.

Signal setup for the MS16:

1. Place the jumper on the Sign. Setup
2. Turn on the transmitter and keep one switch pressed until the end of this setup mode.
3. Turn on the receiver.
4. After 5 seconds the red LED will start to blink
5. Release the switch and disconnect the decoder.
6. Remove the jumper on the signal setup and reconnect the decoder.
7. The signal setup has been programmed for your transmitter.

Memory / Puls setup

This setup makes it possible to program any output of the ms16.
With memory mode the output will be active until you press the same channel again. With puls mode the output will be deactivated when you release the switch.

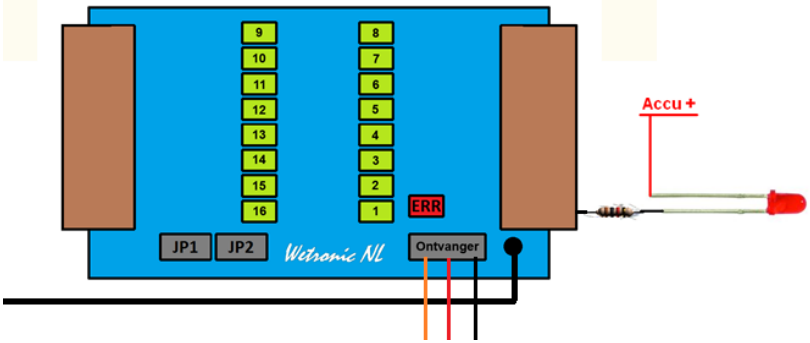
Memory / Puls Setup

1. Place the jumper on Mem. Setup
2. Turn on the transmitter
3. Turn on the receiver
4. Be sure that the decoder is connected tot he right channel.
5. The red light will light up very short to confirm the mem setup.
6. Any output you activate right now will be an memory output.
7. Any output inactive will be an puls output.
8. After about 20 seconds the mem setup will end automatically and confirm this with an red blinking led.
9. Disconnect the decoder from the receiver.
10. Remove the jumper from mem setup
11. Reconnect the decoder tot he receiver and confirm your config.

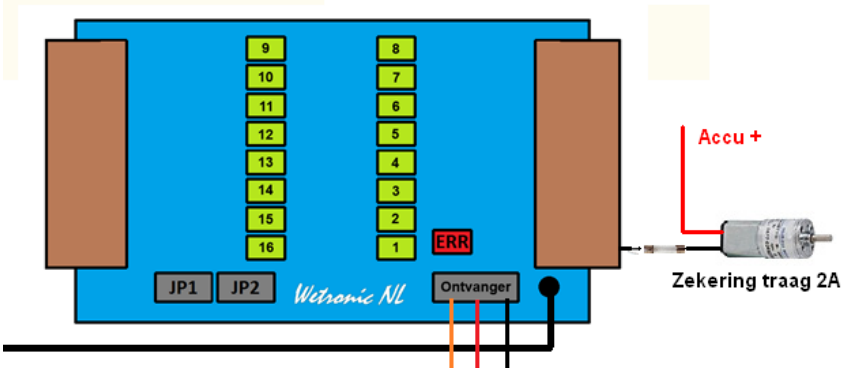
Examples of connecting

Below we will give some examples for how to connect different items tob e connected tot he decoder outputs. It's important to know that this module like almost any other electronics out there uses N channels to switch on or off. This means it switches the outputs to ground. This makes it possible to use multiple voltage on the module outputs with switching.

Connecting LEDS to the outputs



Connecting an small DC motor



*To turn the motor in both ways (lef tand right) you'll need an extra module: Motor Reversal Module you can find this in our webshop.

FAQ

Here we will help you out with solving some general issues.

1. **What if my module won't work?**
   Please contact our helpdesk for support: support@wetronic.nl
   We are here to help you out or try our chat on www.wetronic.nl

2. **Are there any other transmitters supported outside the Robbe F/FC**
   At this moment we only support Robbe F-14,FC-16,FC-18,FX18,FC-28 and with an special adapter print the Robbe Terratop and promars transmitters.
3. **Waar moet ik opletten als ik een motor aansluit op de module?**
   It's important that the motor is not using high currents. The module is mainly designed for small items to be switched. With our heavy module you can switch up to 3A on each output. But motors have an high peak current at start up what can damage the decoder. Any motor larger then micro we advise you to use an relais or Motor reversal module.

4. **Is the MS16 compatable with the MS12 or original Robbe?**
   Unfortanly the MS16 is not backwards compatable with the MS12. Also the MS16 is not compatable with the original robbe modules. But for robbe we have an special decoder of the MS16 series. This special decoder works with the original robbe encoders.

2014