



USER MANUAL

EXPANDER SW 4

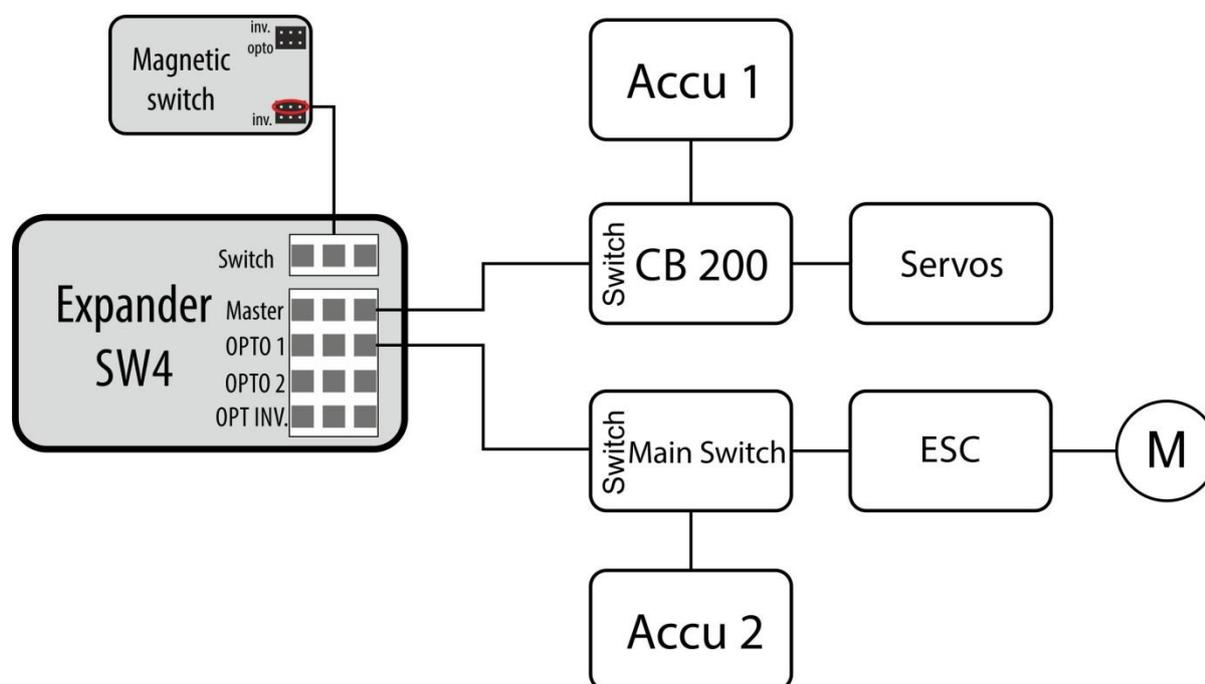


1. Introduction

The Expander SW4 is an extension for magnetic and RC switches and is designed for switching multiple devices simultaneously. The JETI model company produces a wide range of devices that can be switched by magnetic switch or RC switch. The Expander SW4 allows you to combine the switching duties so that several devices can be controlled using one only element. Furthermore, some outputs are optically isolated to prevent interference. This makes it possible to isolate control of devices which may be sensitive to electric interference.

2. Switch Expander circuitry

Expander SW4 has on output for a magnetic or RC switch and 4 outputs, 3 of them are optically isolated (OPTO1-OPTO3). The output that is not optically isolated is connected to the magnetic or RC switch directly, including the power supply (Master input). The optically isolated outputs must be powered separately. One of the optically isolated outputs is inverted (e.g. for SBEC40) – OPT INV.



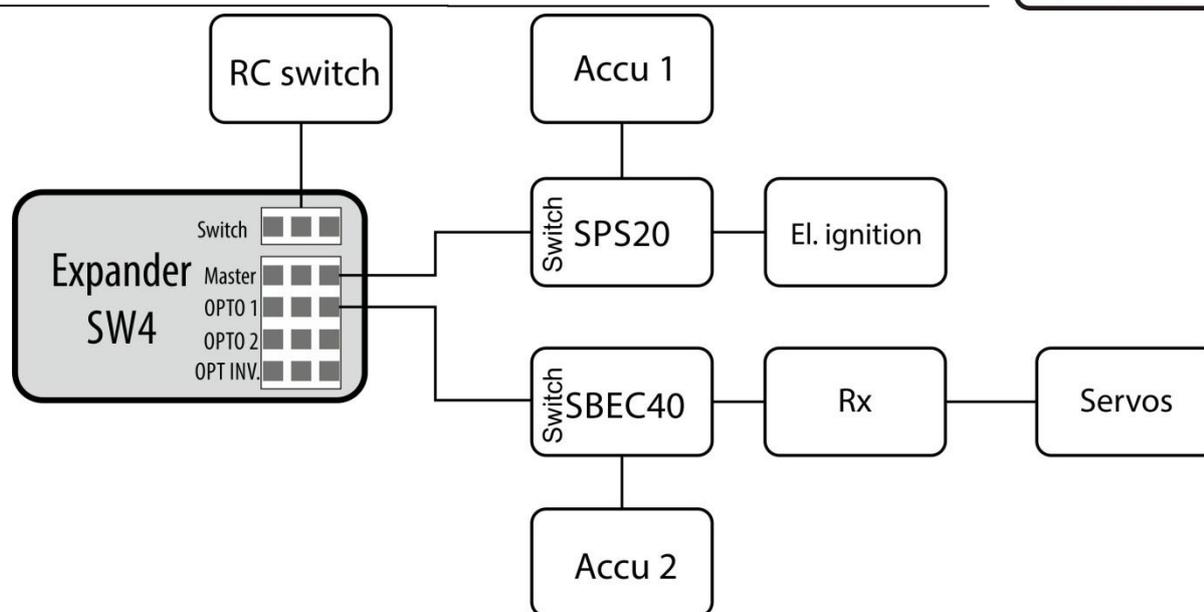


Fig. 1: Expander SW4 application connection

Circuitry with the RC Switch – in case its setting has been changed in the transmitter, it is necessary to make sure that the switch is set to normal output (as by default). If the output is set to inverted, the Expander SW4 would not work correctly. The RC switch is connected to the Expander SW4 output labelled Switch, see Fig. 1.

Circuitry with the magnetic switch – normal output of the magnetic switch is connected to the input of the Expander SW4 (labelled Switch), see Fig. 1.

If an optical connection is needed, the –poles of the separated circuits must not be connected anywhere, as well as the +poles.

Magnetic or RC switches, as well as the Expander SW4, are supplied power from the same Master output. Thus it is necessary to have the power supply connected at least to this connector, see Fig. 1.

If the power supply of the Expander SW4 is interrupted when the magnetic or RC switch is on, the devices connected to any optically isolated output are switched OFF!! If only a magnetic or RC switch is disconnected from the Expander SW4, all the devices connected to Expander SW4 outputs remain switched ON.

Please follow all the directives described in individual manuals for the magnetic or RC switch!

3. Installation

The Expander SW4 can be mounted to the model using adhesive Velcro. It is very important to prevent the cable connected to the Master output from disconnecting.

4. Technical specifications of Expander SW4

Technical data:	
Voltage supply	3,5 – 59 V (up to 15Lixx)
Current consumption in switched-off state	60uA@63V
Number of outputs	4
Operation temperature	- 20°C up to +85°C
Weight	7 g
Dimensions	30x23x13 mm

5. Warranty

For this product JETI model grants a warranty of 24 months from the day of purchase under the assumption that it has been operated in conformity with these instructions at recommended voltages and that it has not been damaged mechanically. Warranty and post warranty service is provided first by your JETI dealer and alternately by the manufacturer.

We wish you successful flying with the products of **JETI model s.r.o. Příbor**, www.jetimodel.cz