Operating Manual

Multiswitch-Converter MSC-8-C MSC-10-C MSC-8-C-LCD for CARSON Reflex Stick MULTI PRO 14 Channel





BEIER-Electronic Winterbacher Str. 52/4, 73614 Schorndorf - Weiler Telefon 07181/46232, Telefax 07181/45732 eMail: modellbau@beier-electronic.de Internet: <u>http://www.beier-electronic.de/modellbau</u>



Function

With the multiswitch converter modules MSC the signals of 8 or 10 switches of the CARSON Reflex Stick MULTI PRO 14 Channel can be collected and transferred via only one proportional channel to these modules:

- Sound module USM-RC-2
- Sound module USM-RC-3
- Sound speed cotroller SFR-1
- Double Sound speed cotroller SFR-1-D
- Double Sound speed cotroller SFR-1-HL
- Speed controller UFR-1230
- Double Speed controller UFR-1230-D

The MSC modules are plugged directly on the receiver of the CARSON Reflex Stick MULTI PRO 14 Channel.

The MSC modules are available in 3 versions:

- MSC-8-C (for radio <u>without</u> LCD)
- MSC-10-C (for radio <u>without</u> LCD)
- MSC-8-C-LCD (for radio <u>with</u> LCD)

The modules MSC-8-C and MSC-10-C are both suitable for the CARSON radio without LCD. The version MSC-8-C-LCD can only be used with the CARSON radio control with LCD.

At MSC-8-C and MSC-8-C-LCD the switches/knobs for channel CH7 and CH8 stay free for other functions.

At MSC-10-C all 10 switch signals are transferred. CH5 – CH14 are occupied and can not be used for other functions.

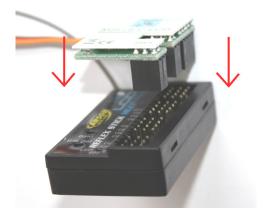
			4
	hnica		ata
101		41 (1)	
		a u	aia

Supply voltage (U _b):	4 – 8 V DC (from receiver)
Power consumption:	ca. 1 mA
Proportional input:	8 or 10 (1,000 - 2,000 ms)
Proportional output:	1 multiswitch output
Size:	24 x 32 x 12 mm
Weight:	10 g

MSC-8-C for CARSON Reflex Stick MULTI PRO 14

Installation to receiver:

The multiswitch converter is plugged **<u>directly</u>** on the golden pins of channel CH5 - CH14 at the CARSON receiver, as demonstrated on the picture.



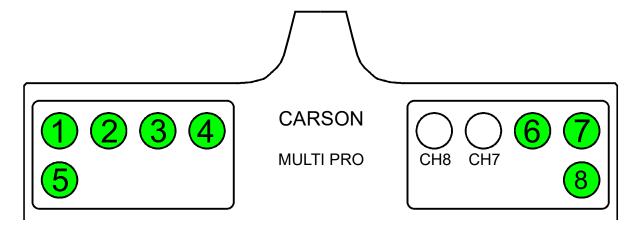


Channel CH5, CH6 and CH9 - CH14 are used by the MSC. These channels can not be used for additional functions, such as servos, speed controler or switching modules!

Channel CH7 and CH8 stay free and can be used for other functions.

Switch numbers:

With the MSC-8-C the switches have following numbers:

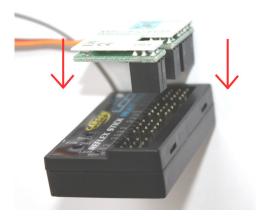


For the switches 1 - 8 two functions can be assigned in the Sound-Teacher or in the Drive-Teacher. One function for "switch up" and one function for "switch down". In total 16 additional functions can be switches with the MSC-8-C.

MSC-10-C for CARSON Reflex Stick MULTI PRO 14

Installation to receiver:

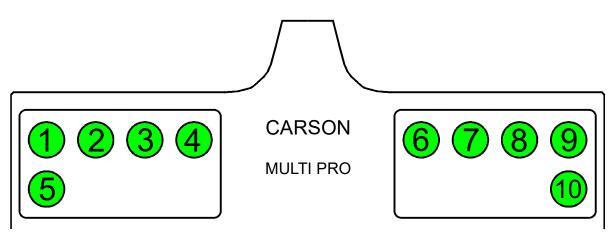
The multiswitch converter is plugged **<u>directly</u>** on the golden pins of channel CH5 - CH14 at the CARSON receiver, as demonstrated on the picture.





Switch numbers:

With the MSC-8-C the switches have following numbers:

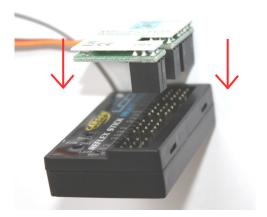


For the switches 1 - 10 two functions can be assigned in the Sound-Teacher or in the Drive-Teacher. One function for "switch up" and one function for "switch down". In total 20 additional functions can be switches with the MSC-10-C.

MSC-8-C-LCD for CARSON Reflex Stick MULTI PRO 14 LCD

Installation to receiver:

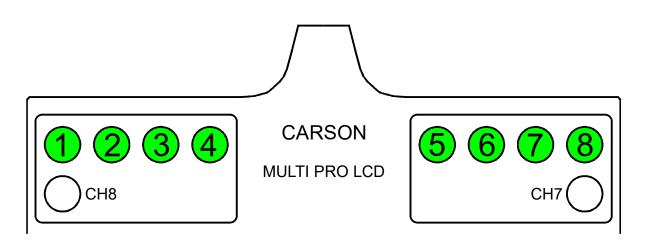
The multiswitch converter is plugged **<u>directly</u>** on the golden pins of channel CH5 - CH14 at the CARSON receiver, as demonstrated on the picture.





Switch numbers:

With the MSC-8-C the switches have following numbers:



For the switches 1 - 8 two functions can be assigned in the Sound-Teacher or in the Drive-Teacher. One function for "switch up" and one function for "switch down". In total 16 additional functions can be switches with the MSC-8-C-LCD.

Operation with sound modules USM-RC-2, USM-RC-3 and sound speed controllers oft the SFR series

With the supplied servo patch cable the MSC module is connected to a corresponding proportional channel of the sound modules:



Module	Connection
USM-RC-2	Prop #3 (X2/3) or Prop #4 (X2/4)
USM-RC-3	Prop #3 (X2/3) or Prop #4 (X2/4)
SFR-1	Prop #3 (X2/3) or Prop #4 (X2/4)
SFR-1-D	Prop #5 (X2/5) or Prop #6 (X2/6)
SFR-1-HL	Prop #5 (X2/5) or Prop #6 (X2/6)

The brown cable points up to the edge of the board.

Nautic 1 or Nautic 2 must be activated in the Sound-Teacher under Configuration \rightarrow **Nautic/Multiswitch**.

At "Type" the used multiswitch converter module must be set. The function error correction is not necessary

utic/Multiswitch 1 Na	utic/Multiswitch 2					
Switch assignment Nau	tic 1		1			Туре
Activate Nautic 1 or Activate Nautic 1 or Activa						MSC-10-C für CARSON 14-K
witch 1 up:		Memory	Switch 9 up:		Memory	Error correction
witch 1 down:		Memory	Switch 9 down:		Memory	
witch 2 up:		Memory	Switch 10 up:		Memory	
witch 2 down:	· · · · · · · · · · · · · · · · · · ·	Memory	Switch 10 down:		Memory	
witch 3 up:	•	Memory		1		
witch 3 down:	-	Memory				
witch 4 up:	-	Memory				
witch 4 down:	-	Memory				
witch 5 up:	•	Memory				
witch 5 down:	•	Memory				
witch 6 up:	•	Memory				
witch 6 down:	-	Memory				
witch 7 up:	-	Memory				
witch 7 down:	-	Memory				
witch 8 up:	-	Memory				
Switch 8 down:	•	Memory				

With correct transmission of data the blue LED is flashing at the sound modul

For the USM-RC-2 a Sound-Teacher version of at least V1.51a is required.

Operation with UFR speed controller

Servo patch cable X3 (control channel) of UFR-1230 or UFR-1230-D speed controller is connected to the MSC module.

The brown cable points up to the edge of the board.



Nautic/Multiswitch at X3 must be activated in the Drive-Teacher under **Configuration** \rightarrow **Nautic/Multiswitch**.

At "Type" the used multiswitch converter module must be set. The function error correction is not necessary

Konfiguration Diagnose	Firmwareupdate				
Fahrtregler Steuerkana	al X3 Nautic/Mull	iswitch Aus	usgänge SM-IR-16-2		
I Nautic/Multiswitch auf X3 aktivieren					
	3 aktivleren				
Schalterbelegung Nautic		-			
Schalter 1 oben: Lichtsc					
Schalter 1 unten: Lichtso		Memory			
Schalter 2 oben: Ausgar		Memory	y Schalter 10 oben:		
Schalter 2 unten: Ausgar Schalter 3 oben: IB: Ser		Memory			
111.00	vo 1 Position #1 💌	Memory			
	vo 1 Position #1 💌	Memory			
111.00	vo 2 Position #1 💌	Memory			
Schalter 5 oben: Blinker		Memory			
Schalter 5 unten: Blinker		Memory			
Schalter 6 oben: Warnb		Memory			
Schalter 6 unten:	•	Memory			
Schalter 7 oben: Tempo	matein /aus 🛛 💌	Memory	y		
	gelung ein / aus 🛛 👻	🔲 🔲 Memory	y		
	trägheit aus 🛛 🔻	A second			
Schalter 8 unten: Massel	trägheit mittel 📃 💌	Memory			
L					

With correct transmission of data the blue LED is fast flashing at the speed controller.

For the UFR-1230 a Drive-Teacher version of at least V1.10d is required.

Disposal note:

Discarded electrical and electronic equipment contains a multitude of valuable resources, including precious metals and critical raw materials. Achieving a high collection and recycling rate and the associated return of these raw materials into the production cycle is one of the central goals of the environmentally friendly and sustainable disposal of electrical and electronic equipment.

For this reason, our modules must not be disposed of with normal household waste, but must be collected separately. The communal collection points, such as recycling centers, can be used for this. Larger dealers also offer take-back points that can be used even if the product was not purchased there. We are happy to take over the professional and free disposal. To do this, send the module back to us with sufficient postage (!!!).

