

User Manual for Harness	Cod. 115834	Rev 3
Omnia57-80 CHT-EGT ROTAX 4T	FLYBOX	

Suitable harness for CHT resistive probes

1	2	3	4	5	6	7	8	9	10	11	12
13	14	15	16	17	18	19	20	21	22	23	24

VIEW FROM WIRING SIDE

Microfit 24 poles receptacle

PIN NO.	SIGNAL TYPE	LABEL	LENGHT	SIZE	NOTE
1	INPUT	+V SUPPLY	100 cm	AWG 24	+V Main Supply
4	INPUT	EGT1	20 cm	0.25 mm ²	Red wire to + of thermocouple 1
16	INPUT		20 cm		Green wire to - of thermocouple 1
5	INPUT	EGT2	20 cm	0.25 mm ²	Red wire to + of thermocouple 2
17	INPUT		20 cm		Green wire to - of thermocouple 2
6	INPUT	EGT3	20 cm	0.25 mm ²	Red wire to + of thermocouple 3
18	INPUT		20 cm		Green wire to - of thermocouple 3
7	INPUT	EGT4	20 cm	0.25 mm ²	Red wire to + of thermocouple 4
19	INPUT		20 cm		Green wire to - of thermocouple 4
8	INPUT	CHT1 +	200 cm	AWG 24	CHT1 +
9	INPUT	CHT2 +	200 cm	AWG 24	CHT2 +
10	INPUT	CHT3 +	200 cm	AWG 24	CHT3 +
11	INPUT	CHT4 +	200 cm	AWG 24	CHT4 +
13	INPUT	GND SUPPLY	100 cm	AWG 24	GND Main Supply
14	OUTPUT	ALARM OUT	50 cm	AWG 24	Alarm output
20	INPUT	-	N/D	AWG 24	Jumper wire to pin 23 for common CHT reference
21	INPUT	-	N/D	AWG 24	Jumper wire to pin 23 for common CHT reference
22	INPUT	-	N/D	AWG 24	Jumper wire to pin 23 for common CHT reference
23	INPUT	CHT -	200 cm	AWG 24	Common CHT reference (connect to GND, preferably on the engine block)
24	INPUT	SWITCH	50 cm	AWG 24	External switch input

The connector and terminals manufacturer's codes are:

Molex P/N 43025-2400 (24 pole housing)
Molex P/N 43030-0007 (female crimp terminal)
Flybox P/N 601014 (female EGT connector)
Flybox P/N 601015 (male EGT connector)
Flybox P/N 601016 (2 poles EGT cable)

By confirming the order you confirm the specifications of the wiring as stated in this document. Should changes be necessary, they must be communicated before the order confirmation to sales@flyboxavionics.it.

ANY NON-STANDARD IMPLEMENTATION IS SUBJECT TO FEASIBILITY ASSESSMENT AND EXTRA COSTS.



WARNING:

Insulate not used wires to prevent them from touching metal parts.