

I/O board



Description

US-Key has different input/output to make for example to synchronize this device with synchro signals, to indicate an alarm when a signal reach the gate threshold, ...

The board called "I/O Board" allows you to protect the US-Key's I/O with voltage translators. So external signals (TTL level 5 Volts) will be converted in 3.3 Volts and signals generated by the US-Key (in 3.3 Volts) will be converted in 5 Volts.

Pinout for the HE10 connector 20 contacts :

Pin number	Pin name	Description
1	Synchro input	To synchronize US-Key with a TTL signal
2*	Encoder A1	Encoder A input phase 1
3*	Encoder A2	Encoder A input phase 2
4*	Encoder B1	Encoder B input phase 1
5*	Encoder B2	Encoder B input phase 2
6	USER1	User input/output (not used in standard)
7	USER2	User input/output (not used in standard)
8	USER3	User input/output (not used in standard)
9	USER4	User input/output (not used in standard)
10	USER5	User input/output (not used in standard)
11	Analog M3	Analog output for the monitor N°3
12	Analog M2	Analog output for the monitor N°2
13	Analog M1	Analog output for the monitor N°1
14	USER6	User input/output (not used in standard)
15	Synchro output	Output to synchronize another device
16	Alarm M1	Alarm output for the monitor N°1
17	Alarm M2	Alarm output for the monitor N°2
18	Alarm M3	Alarm output for the monitor N°3
19	GND	Ground
20	+5 V	Power supply +5 Volts

In option, we supply an interface module with connector blocks to link directly wires. For this module, the pinout is similar to this board.

* : for a specific application (development required)