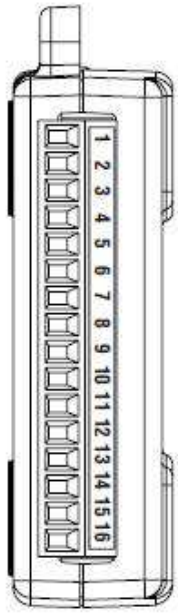
NI USB-6008/6009 I/O Connector and Specifications (excerpt)

Analog Terminal Assignments

Module	Terminal	Signal, Single-Ended Mode	Signal, Differential Mode
	1	GND	GND
	2	AI 0	AI 0+
	3	AI 4	AI 0–
	4	GND	GND
	5	AI 1	AI 1+
	6	AI 5	AI 1–
	7	GND	GND
	8	AI 2	AI 2+
	9	AI 6	AI 2–
	10	GND	GND
	11	AI 3	AI 3+
	12	AI 7	AI 3–
	13	GND	GND
	14	AO 0	AO 0
	15	AO 1	AO 1
	16	GND	GND

Digital Terminal Assignments

Terminal	Signal
17	P0.0
18	P0.1
19	P0.2
20	P0.3
21	P0.4
22	P0.5
23	P0 6
24	P0.7
25	P1.0
26	P1.1
27	P1.2
28	P1.3
29	PFI 0
30	+2.5 V
31	+5 V
32	GND

AI <0..7> → **Analog Input Channels 0 to 7**
AO <0 / 1> → **Analog Channel 0/1 Output** Supplies the voltage output of AO channel 0 /1
P1.<0..3> P0.<0..7> → **Digital I/O Signals** You can individually configure each signal as an input or output
PFI 0 This pin is configurable as either a digital trigger or an event counter input
USB specification .....USB 2.0 full-speed **USB bus speed**.....12 Mb/s
Input range

Single-ended ..... ±10 V

Differential..... ±20 V (means that |AI+ – (AI–)| <= 20V. However, AI+ and AI– must both be within ±10V of GND);
±10 V, ±5 V, ±4 V,±2.5 V, ±2 V, ±1.25 V, ±1 V

Feature	NI USB-6008	NI USB-6009
AI Resolution	12 bits differential, 11 bits single-ended	14 bits differential, 13 bits single-ended
Maximum AI Sample Rate, Single Channel*	10 kS/s	48 kS/s
Maximum AI Sample Rate, Multiple Channels (Aggregate)*	10 kS/s	48 kS/s
DIO Configuration	Open collector	Open collector or active drive
* System dependent.		

I dispositivi NI USB-6008/6009 sono dotati di un led verde che lampeggia stabilmente quando ricevono l'alimentazione via USB, sono stati inizializzati e sono pronti per funzionare. Perché questo succeda devono essere installati i driver NI-DAQmx e, ovviamente, il PC non deve essere in modalità standby.