

NCB213 - UNIVERSAL COINCIDENCE

The module NCB213 is a universal coincidence unit with 5 inputs. Each input is accepted through a front-panel connector. Input accepts an input signal and regenerates an internal signal that will be used for coincidence comparisons. The input A signal width is adjustable for a resolving time of 200 ns to 3 μs from a front-panel. The function of each input is selectable, and can be used for coincidence or anticoincidence. This permits compose different combinations of input signal relations.

PERFORMANCE

Input a resolving time	200 ns to 3 μs; controlled by a front-panel, 10-turn, screwdriver adjustable potentiometer; inputs B, C, D and E controlled by input pulse width.
Input controls	Five 3-position toggle switches select Coincidence, Anticoincidence, or OFF (disabled)
Input polarity	Internal switch able input
Positive pulse Negative pulse (default set NIM standard input)	+2 V min, 12 V maximum. NIM standard signal.
Input pulse width Output pulse width	50 ns to DC 200 ns
Input connectors Output connectors	BNC BNC
Input impedance	>1,5 k Ω, dc-coupled for positive polarity signal; 50 Ω for negative polarity.
Output impedance	<8 Ω, dc-coupled
Positive output	+5 V
Negative output	-5 V (optional solution NIM standard signal)
Coincidence	Selects number of inputs necessary to satisfy a coincidence requirement (majority logic)
Temperature instability	Input change in resolving time, τ ±0,1%/°C.
Operating temperature	0 - 50°C

POWER SUPPLY REQUIREMENTS

The module has NIM standard power supply.

P. Voltage (V)	Current/ch (mA)
+12	84
-12	68
+6	106
-6	690

DIMENSIONS

dimensions	3,43x22,13 cm per DOE/ER-0457T
weight	Net 0,8 kg

