

## How can I connect photocells to my AMB i.t. decoder?

The AMB i.t. decoder is equipped with an auxiliary port (15 pin sub D-connector). The auxiliary port has 3 inputs, photo cell 1, photo cell 2, sync pulse and a control port for a GPS receiver. All inputs can be triggered by a 5 VDC (5-15 mA) pulse. Figure 1a and scheme 1b both explain the connection setup.

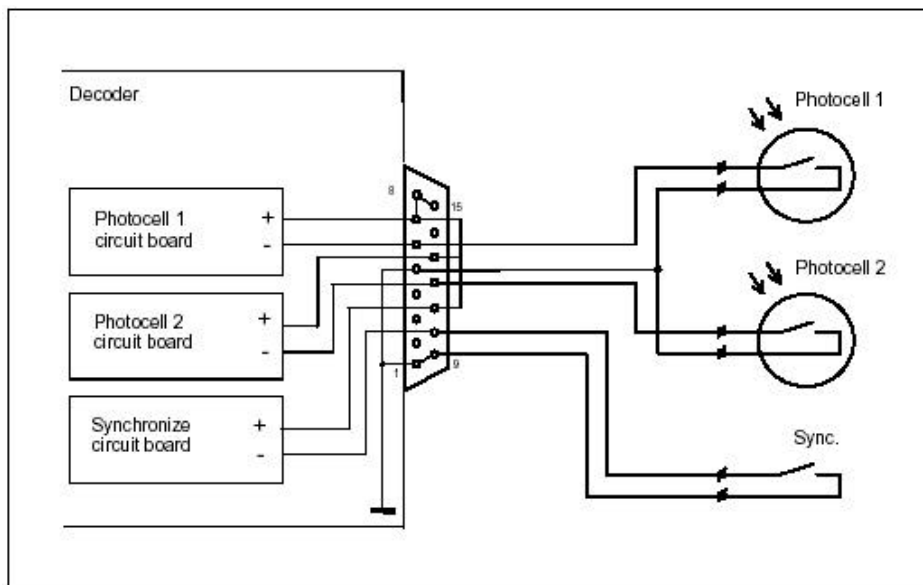
To use a photocell, connect it using the AMB photocell cable (article no. 5503 and 5504) or make an appropriate cable using the figure 1a and scheme 1b below.

### *Photo cell installation*

Two types of photocells are available, passive and active photocells. They both operate as a switch; to connect the passive photocells please follow the connection setup in figure 1a and scheme 1b. Active photocell can be connected directly to the photocell/sync – and + input pins.

	Pin	Signal	Connection Setup
<b>Power supply</b>	8+15	5V/ 500mA	
	14	12V	
<b>Photo Cell 1</b>	5	Ground	
	6	Photo Cell 1 - input	- Connect pin 7 to pin 8 + 15
	7	Photo Cell 1 + input	- Connect pin 6 to pin 5
<b>Photo Cell 2</b>	5	Ground	
	12	Photo Cell 2 - input	- Connect pin 13 to pin 8 + 15
	13	Photo Cell 2 + input	- Connect pin 12 to pin 5
<b>Sync Pulses</b>	1+9	Ground	
	10	Sync - input	- Connect pin 11 to pin 8 + 15
	11	Sync + input	- Connect pin 10 to pin 1+ 9
<b>GPS control</b>	1+9	Ground	
	2	Receive data	
	3	Transmit data	
	4	Pulse per second	
	14	12V power supply	

Figure 1a: Connecting photocells, connection setup



Scheme 1b : Connecting photocells