

Heron Optical 24VAC Pump Start

The Heron 24V pump start board is designed for DIN rail mounting. It should be mounted on a DIN rail inside an appropriate enclosure. The pump control output is **24VAC at 0.6A**.

The Heron Optical Pump starts comes in the following three versions

- DEC-BP1
- DEC-BP2SN
- DEC-BPLT

The Heron Optical Pump starts can be wired in the following four configurations:-

Function	Fig	Type Required	Description
Simple Connection	1	DEC-BP1	Provides very high surge immunity for pumps Essential for remote pumps.
Programmable Pump Start on Program	2	DEC-BP1	Allows pump to be controlled on a program by program basis via a decoder.
Fully Programmable Pump Start Output	3	DEC-BP2SN	Allows pump output to be switched on and off within an irrigation program. One serial number will switch on the output and the second serial number will switch off the output. When the program finishes or irrigation the power to the controller is lost the output will switch off.
Latched ON and OFF	4	DEC-BPLT	Allows output to be latched on and off. One serial number will latch the output on and the other will latch it off. The output will always remain on until the off command is received.

Connection

24VAC Input (POW)

Connect a 24VAC supply to the 'Pow' input. The 24VAC supply must be fused or be capable of supplying 0.6A.

Note: A Heron DIN rail mounting transformer can be used to provide this 24VAC supply.

Pump Output

A 24VAC pump control output is across the terminals 3,3. A volt free relay contact is across C, NO or C,NC..

Two Wire Control Input (AC GND 1, 2)

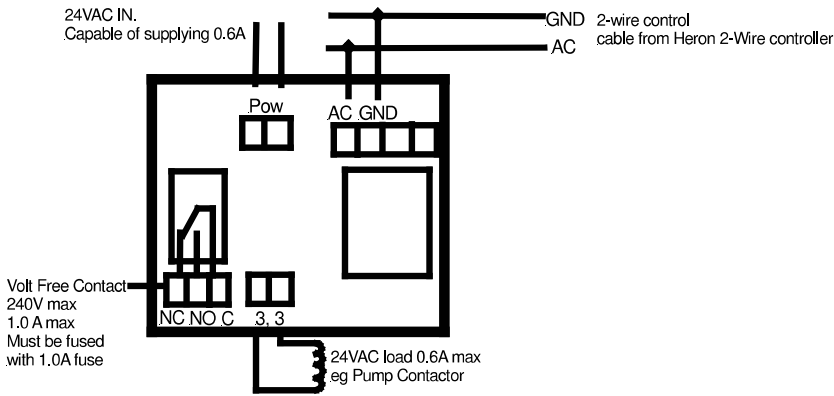
See the appropriate wiring diagram for the connection of these inputs.

IMPORTANT Contains optical device, avoid sunlight, install in dark enclosure.

Important Safety Notice:

The 2 wire control cable from the Heron 2 Wire controller carries an is extra low safety voltage. Keep this cable and its connection to the Optical Pump Start at least 25mm (1 inch) away from any mains cable and mains terminals. Also use cable ties to keep the 2 core cable in place.

Fig 1 Simple Connection for DEC-BP1 Optical Pump Start



**Fig 2 Connection of DEC-BP1 With DECB1 Decoder for Program Pump Start
Ti40, Ti240 Controllers Only**

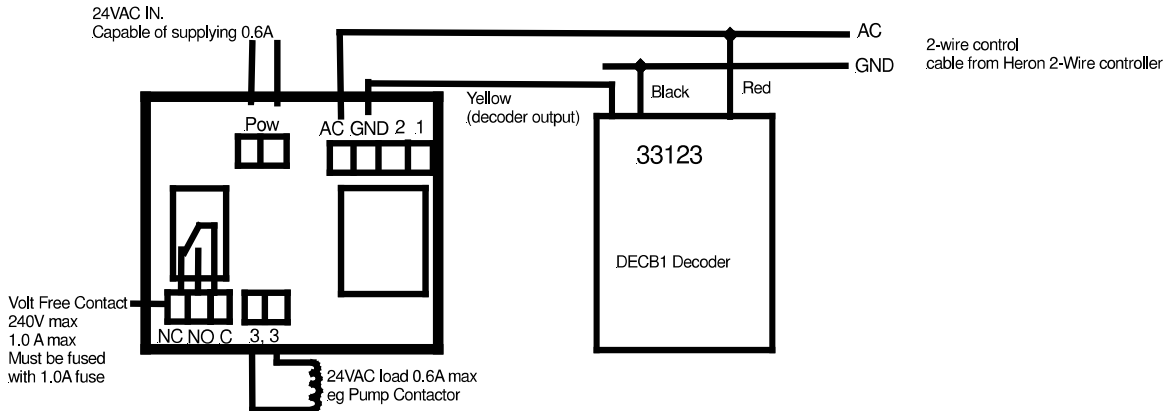


Fig 3 Connection of DEC-BP2SN With DECB2 Decoder for Programmable Pump Start

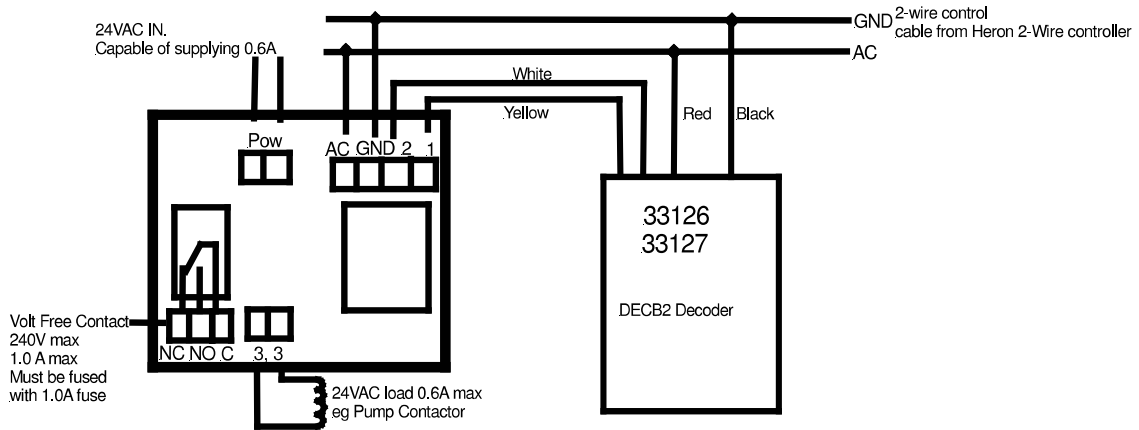


Fig 4 Connection of DEC-PLT with DECB2 Decoder for Latched Programmable Pump Start

