**Calypso V2.0 R2.0 CENR-50 интерфейс (без отражения, для новых плат)**

|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **#** | **Name** | **Power Group** | **State** | **Type** | **Description** | **Interface pin** |
| 26 | RELAY1 A | — | Normal off | Switch | TEA | — |
| 1 | RELAY2 A | — | Switch | — |
| 2 | RELAY1 B | — | Normal off | Switch | — | — |
| 3 | RELAY2 B | — | Switch | — | — |
| 4 | RELAY1 C | — | Normal off | Switch | — | — |
| 5 | RELAY2 C | — | Switch | — | — |
| 6 | RELAY1 D | — | Normal off | Switch | — | — |
| 7 | RELAY2 D | — | Switch | — | — |
| 8 | CAN Negative | 5V | 0 | Differential | Emitter CAN interface | 2 |
| 9 | CAN Positive | 5V | 0 | Differential | 1 |
| *10* | *+15V* | *No* | *No connect* | *Power* | *—* | *9* |
| 11 | HV INHIBIT | 5V | Low | Output | PCA-10 | 7 |
| 12 | HV OVER TEMPERATURE | 5V | Low | Input | PCA-10 | 13 |
| 13 | HV READY | 5V | Low | Input | PCA-10 | 8 |
| 14 | HV OVER VOLTAGE | 5V | Low | Input | PCA-10 | 14 |
| 15 | LAMP PULSE | 5V | Low | Output | NBU-1012 | 4 |
| 16 | HV FAULT | 5V | Low | Input | PCA-10 | 19 |
| 17 | CAPACITORS BANK DISCHARGE | 5V | Low | Output | NBU-1012 | 3 |
| 18 | HV ON | 5V | Low | Input | PCA-10 | 20 |
| 19 | SIMMER ENABLE | 5V | Low | Output | NBU-1012 | 2 |
| 20 | SIMMER SENSOR | 5V | Low | Input | NBU-1012 | 1 |
| 21 | LDD CURRENT MONITOR | 10V[[1]](#footnote-1) | 0 | Analog input | LDD-1200 | 6 |
| 22 | HV MONITOR | 10V[[2]](#footnote-2) | 0 | Analog input | PCA-10 | 17 |
| 23 | LDD VOLTAGE MONITOR | 10V[[3]](#footnote-3) | 0 | Analog input | LDD-1200 | 5 |
| 24 | HV PROGRAM | 10V[[4]](#footnote-4) | 0 | Analog output | PCA-10 | 3 |
| 25 | LDD CURRENT PROGRAM | 10V[[5]](#footnote-5) | 0 | Analog output | LDD-1200 | 7 |
| 27 | 12V | 12V | 12V | Power | Flow 2 | 3 |
| 28 | FLOW SENSOR 2 | 12V | Low | Input Pulse | Flow 2 | 2 |
| 29 | 12V | 12V | 12V | Power | Flow 1 | 3 |
| 30 | FLOW SENSOR 1 | 12V | Low | Input Pulse | Flow 1 | 2 |
| 31 | GND | 0 | GND | Ground | Flow 1 | 1 |
| 32 | Target LDD | 12V | 0 | Output | Emitter | 3 |
| 33 | LED indicator | 3V\* | 0 | Output | Emitter | 4 |
| 34 | GND | 0 | GND | Ground | Flow 2 | 1 |
| *35* | *+15V* | *No* | *No connect* | *Power* | PCA-10 | *10* |
| 36 | GND | 0 | GND | Ground | PCA-10 | 5,6 |
| 37 | FOOT SWITCH | 12V | Low | Input | Emitter | 6 |
| 38 | GND | 0 | GND | Ground | Emitter | 7 |
| 39 | GND | 0 | GND | Ground | LDD-1200 | 15 |
| 40 | LDD PULSE | 5V | Low | Output | LDD-1200 | 8 |
| 41 | LDD FAULT | 5V | Low | Input | LDD-1200 | 2 |
| 42 | GND | 0 | GND | Ground | NBU-1012 | 8 |
| 43 | LDD ENABLE | 5V | Low | Output | LDD-1200 | 1 |
| 44 | GND | 0 | GND | Ground | NBU-1012 | 7 |
| 45 | GND | 0 | GND | Ground | NBU-1012 | 6 |
| 46 | GND | 0 | GND | Ground | LDD-1200 | 9 |
| 47 | GND | 0 | GND | Ground | PCA-10 | 4 |
| 48 | GND | 0 | GND | Ground | LDD-1200 | 4 |
| 49 | GND | 0 | GND | Ground | PCA-10 | 2 |
| 50 | LDD LOCK | 5V | Connect to GND (49) | — | LDD-1200 | 3 |

1. LDD current monitoring 0-MAX Amps present as 0-10V [↑](#footnote-ref-1)
2. HV monitoring 0-450 Volts present as 0-10V [↑](#footnote-ref-2)
3. LDD voltage monitoring 0-MAX Volts present as 0-10V [↑](#footnote-ref-3)
4. Programming HV 0-450V with voltage 0-10V [↑](#footnote-ref-4)
5. Programming current 0-MAX Amps with voltage 0-10V [↑](#footnote-ref-5)