

| M12 Pin's (A Code) | Class B | Class A |
|--------------------|----------|-----------|
| | 5 Pin | 5 Pin |
| | P2HLB... | P2HLA.... |
| 1 | L + | L + |
| 2 | Aux + | - |
| 3 | L - | L - |
| 4 | C/Q | C/Q |
| 5 | Aux - | - |

| Symbol | Description |
|--------|-------------------------------|
| L + | IO-Link Power Supply 24 VDC |
| L - | IO-Link Power Supply 0 VDC |
| C/Q | IO-Link Communication |
| Aux + | Auxiliary Power Supply 24 VDC |
| Aux - | Auxiliary Power Supply 0 VDC |

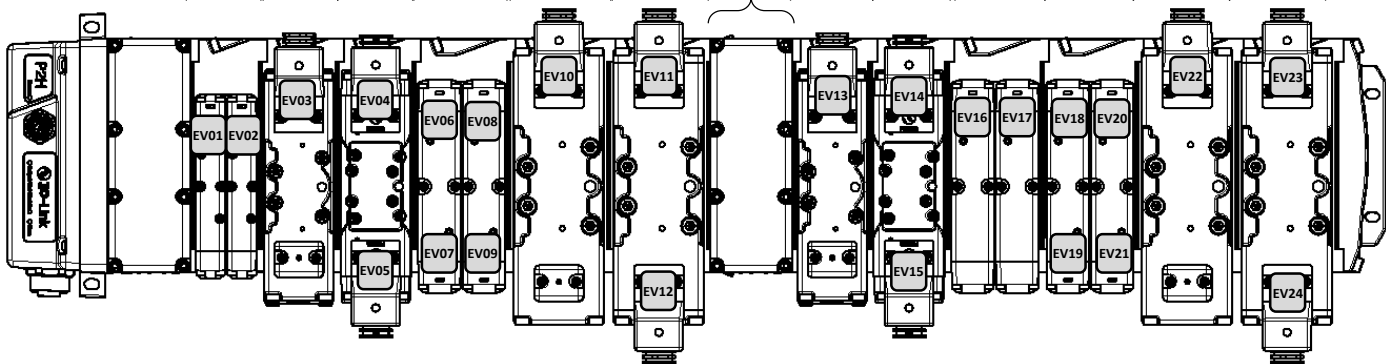
| 7/8 Pin's | Class A | Class A |
|-----------|-----------|-----------|
| | 5 Pin | 4 Pin |
| | P2HLA24P5 | P2HLA24P4 |
| 1 | Aux - | Aux + |
| 2 | *L - | *L + |
| 3 | Earth | *L - |
| 4 | *L + | Aux - |
| 5 | Aux + | - |

Note:
 *7/8" logic power has no connection to internal P2H unit but does carryover to OUT 7/8" connector (for jumper logic power only). Logic power for P2H unit will be supplied from M12 (pin 1 & 3)

P2H IO-Link Module addressing used with H ISO Series – 15407-2 & 5599-2

The P2H IO-Link node used with H ISO Series – 15407-2 (size 02 & 01) & 5599-2 (sizes 1 & 2) – can handle up to 24 pilot solenoid valves. Addressing will be done as shown below:

HB Single Address Manifold H1 Single Address Manifold H1 Double Address Manifold HA Double Address Manifold H2 Single Address Manifold H2 Double Address Manifold Air Supply Zero Address Manifold H1 Single Address Manifold H1 Double Address Manifold HA Single Address Manifold HA Double Address Manifold H2 Single Address Manifold H2 Double Address Manifold



PLC Process outputs data mapping

| 7 | 0 |
|---------|-----------------|
| Byte 0 | EV08 EV01 |
| Byte 1 | EV16 EV09 |
| Byte 2 | EV24 EV17 |

Configuration IODD File

IODD file can be downloaded from IODD Finder or the P2H IO-Link web site:

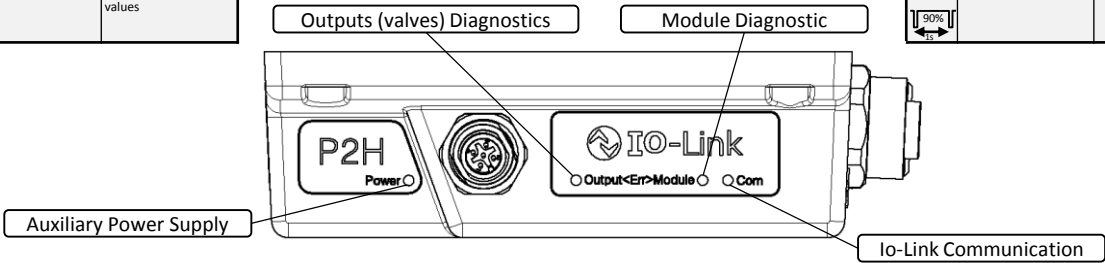
- <https://ioddfinder.io-link.com>
- www.Parker.com/pdn/P2H_IOL

Diagnostic

Local diagnostic through LED:

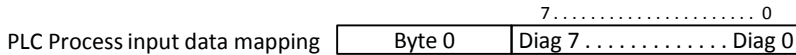
The P2H IO-Link node offers a local diagnostic through 4 LED's status with interpretation described in the table below:

| Power Green LED | | | Output<Err> Red LED | | | <Err>Module Red LED | | | Com Green LED | | |
|------------------|--|---|---------------------|--|--|----------------------|--|---|---------------|---|--|
| LED Status | Description | Solving | LED Status | Description | Solving | LED Status | Description | Solving | LED Status | Description | Solving |
| OFF | Auxiliary power failure < 18V or > 28,5V | Check Auxiliary Power Supply | OFF | Standard mode (No error active) | N/A | OFF | Standard mode (No error active) | N/A | OFF | IO-Link L+ / L- line not powered | Check IO-Link power supply from IO-Link Master (pin's 1 & 3) |
| ON | Standard mode (Auxiliary power within normal range 20,4V* to 26,4V*) | N/A | ON | Any outputs driver error (Auxiliary power error, overload, short circuit, over temperature, ...) | If auxiliary power OK (see Power LED status), check error messages and related troubleshooting | ON | 24 Vdc Auxiliary power missing or any active malfunction | Check Auxiliary power supply. If auxiliary power supply OK, module must be replaced | ON | IO-Link L+ / L- line powered IO-Link master port set as SIO mode | Set IO-Link master channel in IO-Link mode |
| Blinking | Auxiliary Power out of range (Warning level*) | Check Auxiliary Power Supply Check/reset adjusted values | | | | | | | Blinking | IO-Link communication active | N/A |



Diagnostic through network via process inputs data:

The P2H IO-Link node offers diagnostic data transmitted to the PLC as inputs process data through the IO-Link master:



| Diag bit | Error message | Detail |
|----------|---------------------------------|--|
| Diag 0 | Fail-Safe Status | Acknowledgment Required |
| Diag 1 | Auxiliary Voltage Warning | Auxiliary Voltage Out of range. Check Auxiliary Power line |
| Diag 2 | Auxiliary Voltage failure | Auxiliary Voltage Out of order. Check Auxiliary Power source |
| Diag 3 | Module Failure | Switch OFF / ON auxiliary power. If error message persists, replace the module |
| Diag 4 | Module Over-Temperature | Switch OFF / ON auxiliary power. If error message persists, replace the module |
| Diag 5 | Module Over-Load | Check overall Pilot Solenoid valves. If error message persists, replace the module |
| Diag 6 | Pilot Solenoid(s) Short Circuit | Check faulty pilot solenoid valve(s), replace if necessary |
| Diag 7 | Outputs Stage not Available | Auxiliary power is OFF |

Errors caused by solenoid(s) must be fixed first and then the error must be acknowledged:

- by switching OFF/ON Auxiliary power supply (once error is fixed)

- Or -

- by sending the "Acknowledge" command:

| Command | Name | Description |
|---------|-------------|---|
| 0xA0 | Acknowledge | If no error is pending, the failsafe state on the device is left and the outputs are switched according to process data |

Installation & Service Instructions
V756P
H Series, General Installation
ISSUED: March 2018
Supersedes: None
Doc. #V756P, EN# 170357, Rev -