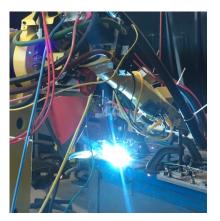
Moduflex IO-Link

Smart Control of Pneumatic Valve Manifolds



Markets:

- Automotive
- Packaging
- Industrial
- Process Control

IO-Link communication is quickly expanding within the Factory Automation market space as a low cost method of connecting I/O "on the network." The **Moduflex IO-Link** module brings this exciting technology to Parker's key valve manifold products. Process data is easily accessible and can be monitored by PLC to help reduce or even prevent downtime.

Features:

- Certified according to latest IO-Link standard: V1.1.2
- Industry standard pin-out configurations for easy connection.
- Class B module offers one M12 connector for communications and power for easy connection to Class B IO-Link Masters.
- Class A module offers one M12 for connection to Class A IO-Link Master and one M12 for easy connection to auxiliary power for solenoids.
- Connection to valve manifolds with Cv from .18 to 6.0
- Easy access to Prognostic & Diagnostic data.
- Easy connection to SAFE power source for valve control.

Superior Value

This product reduces overall machine cost via low cost connection to a network while also providing diagnostic information. The **Moduflex IO-Link** communicates diagnostic information through the PLC, and also has local LED status lights to help diagnose a problem.

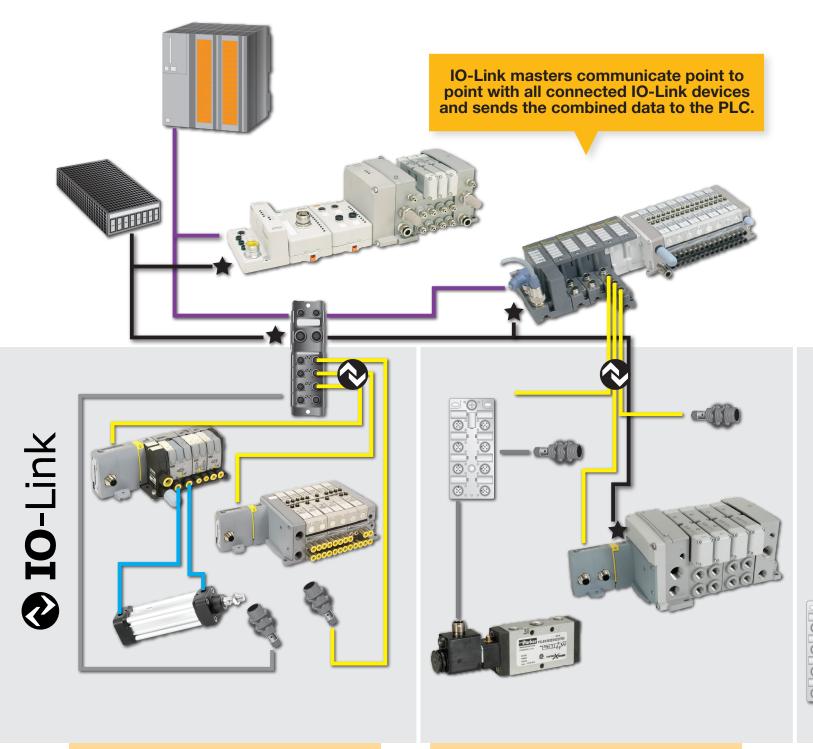
- 10-Link com status
- Module error
- Output error
- Auxillary power

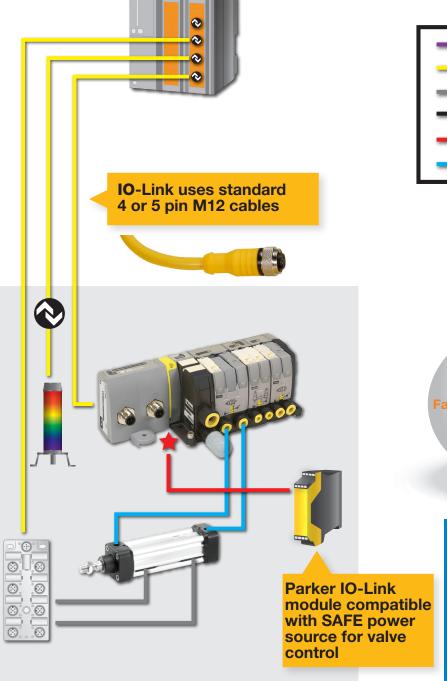


Moduflex IO-Link Module

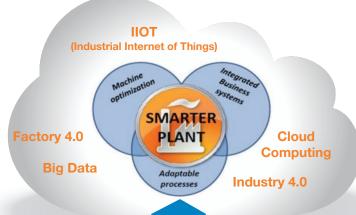








Industrial Network / Fieldbus Wired IO-Link Discrete Wired Input / Output 24 VDC Power 24 VDC SAFE Power Source Pneumatic



IO-Link is another step towards the Smarter Plant by lowering the cost for gathering component level prognostics and diagnostics.

Out of Tolerance Warnings

- * Voltage
- * Temperature
- **Error Descriptors** * Solenoid Short Circuit
- * IO-Link Communication Error Cycle Count for each valve

Network to Remote 10-Link Master

Reduce cabinet size by using De-centralized "on-machine" IO-Link Master

- * Master on the existing network
- * Control all local I/O with IO-Link
 - "Smart" I/0
 - Discrete I/O

Node Expansion Using 10-Link

Reduce node count by adding IO-Link Master module onto BL67 manifold

- * 20m max length for I/O-Link cables
- * Control all "smart I/O" on 1 node
- * Reduce cost of secondary valve manifold
 - Using Moduflex IO-Link module

Non-Network I/O Control Using IO-Link

Use PLC with integrated IO-Link Master for machines with smaller I/O counts

- * 20m max length for I/O-Link cables
- * Control all local I/O with IO Link
 - "Smart" I/0
 - Discrete I/O

THIS IS **EASIER**



Fewer Network Nodes Easy Expandability

THIS IS **VALUE**

Easy Access Diagnostics Prognostics to Prevent Downtime

Moduflex IO-Link Module

Connection Types and Power:

Class A Master:

Class A Module with (2) M12 connectors for IO-Link and auxiliary power up to 3.6 A valve power.

Class B master:

Class B Module with (1) M12 connector for IO-Link and valve power up to limit of Class B Master output. Use Class A module with auxillary power if Class B Master cannot provide enough power.

	(24V)			(24V)	
M12 Pins	Class B	Class A	Class A 3 Pins		
	5 pins	3 pins			5 Pins
	P2MB	P2MA	P2MA13	P2MA43	P2mA42
1	L+	L+	Aux +	Not used	Not used
2	Aux +	-	-	-	Aux -
3	L-	L-	Aux -	Aux -	Not used
4	C/Q	C/Q	Not used	Aux +	Aux +
5	Aux -	-	-	-	Not used

Class A and B units are compatible with SAFE power source for valve control. See user manual document number 30048690201W05 at www.Parker.com/pdn/io-link

	IO-Link Class	⊘ IO-Link	Aux Power	Aux. Power Pinout	Weight (g)	Order Code
	Class A	3 Pins	3 Pins	1 & 3	160	P2M2HBVL12400A13
		3 Pins	3 Pins	4 & 3	160	P2M2HBVL12400A43
		3 Pins	5 Pins	4 & 2	160	P2M2HBVL12400A42
	Class B	5 Pins		2 & 5	140	P2M2HBVL12400B25

See offer of sale: www.parker.com/offerofsale

Valve Series

Choose valve series based on flow required for application. Check maximum solenoid current consumption against limit of power supply.



Modulflex Valve Cv: .18 - 0.80 19 Solenoids 42mA per Sol.



H Micro Cv: 0.35 24 Solenoids 42mA per Sol.



H ISO 15407-2 Cv: 0.55 - 1.1 24 Solenoids 42mA per Sol.



H ISO 5599-2 Cv: 1.5 - 6.0 24 Solenoids 133mA per Sol.

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Parker Hannifin Corporation Pneumatic Division 8676 E. M89

Richland, MI 49083 USA

Tel: 269 629 5000 Fax: 269 629 5385

Web: www.parker.com/pneumatics www.parker.com/pdn/io-link