

AL14xx A/B port options -- Siemens TIA Portal

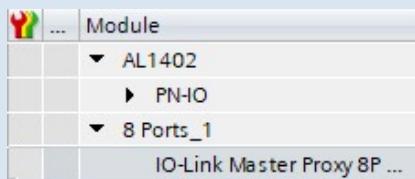
The PerformanceLine IO-Link masters (AL14xx) provide an output current rating of 2A. The user can configure ports 1...4 as A or B types and factory default is type A.

For easy testing, modify the ports using LRDevice configuration software.

Note: The PLC overwrites this configuration when connected via most fieldbus modules (EIP, ProfiNet, EtherCAT, etc.).

Port 1	Port1 Transmission to LR Agent or SMARTOBSERVER	Enabled
Port 2	Port1 Current Limit Pin2 UA	450
Port 3		
Port 4	Port1 Mode Pin2 UA	Off (IO-Link Type A Supply)
Port 5	Port1 Current Limit Pin1+Pin4 US	Off (IO-Link Type A Supply) On (IO-Link Type B Supply) Digital Output
...		

Using TIA Portal, select IO-Link Master Proxy and open the Properties tab.



Modify each port by selecting Module parameters > Mode Pin2 (Actuator Supply UA).

General	IO tags	System constants	Texts
Mode Pin2 (Actuator Supply UA)			
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X1 (B-Port): OFF (IO-Link Type A Supply)			
X2 (B-Port): OFF (IO-Link Type A Supply)			
X3 (B-Port): ON (IO-Link Type B Supply)			
X4 (B-Port): Digital Output			



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Current control can be set for all ports. Note that ports 5...8 are type A only. The sensor power current limit is the threshold unless the port is set to type B.

Current Limit Pin2 (Actuator Supply UA max. 8A) [mA]

X1 (B-Port):	2000
X2 (B-Port):	2000
X3 (B-Port):	2000
X4 (B-Port):	2000

Current Limit Pin1 + Pin4 (Sensor Supply US max. 3.6A) [mA]

X1 (B-Port):	450
X2 (B-Port):	450
X3 (B-Port):	450
X4 (B-Port):	450
X5 (A-Port):	450
X6 (A-Port):	450
X7 (A-Port):	450
X8 (A-Port):	450

Fail Safe mode can be set for AUX power. If the fieldbus communication fails, the master retains these mode settings.

Fail Safe DO Mode Pin2 (Actuator Supply UA)

X1 (B-Port):	Fail Safe Set Value
X2 (B-Port):	Fail Safe Reset Value
X3 (B-Port):	Fail Safe Old Value
X4 (B-Port):	Fail Safe Set Value 

Fail Safe Reset Value	Failsafe enabled: reset value
Fail Safe Old Value	Failsafe enabled: Hold last value*
Fail Safe Set Value	Failsafe enabled: set the defined value

* Factory settings