

IO-Link Block AOI Test Report

Date of Test: 15 - APR - 2024

Name of Test Engineer: Jose Sanchez

Product Description of Tested Product: TBEN-L4-B10L w AOI

Product Firmware Rev: 3.4.2.0

PLC used to Test Product: 1769-L30ERM5

Version of StudioLogix used to Test Product: 32 Studio 5000

Name of AOI File Tested: TURCK IO-Link All Full AOI V1.3 (specific to TBEN-L4-B10L-AOI)

Version of AOI File Tested: 1.3

Test Notes: All good. will Add a note that MSG path should be changed (updated) every time block's IP is changed.

Test Passed: ☒ Yes / No

Test Plan

- ☒ Import L5K into Studio, create catalog ACD, verify all IO-Link Blocks are present in project.
- ☒ Create Blank ACD Project for your Test PLC of choice.
- ☒ Drag over IO-Link Block Device and corresponding Block AOI from Catalog to Project
- ☒ Verify AOI Version matches Rev file and Revision Notes from txt file in github.
- ☒ Verify AOI Description matches txt file in github.
- ☒ Configure IP Address of local block. (201)
- ☒ Bring copy of 8IOL AOI into Logic
- ☒ Create tag instances of AOI, Common Data, Read MSG, and Write MSG
- ☒ Tie TBEN I, O, and C Data to AOI
- ☒ Setup ^{Read} SEND MSG instructions with correct PATH, Service Code 4b, Class 67, Send and Receive Arrays to Common Data Send/Receive Arrays *has to be changed everytime IP is changed.*
- ☒ Setup Write MSG instructions the same but change service code to 4C.
- ☒ Download Program to PLC
- ☒ Check all DXPs with Input signal. *DxP1 ✓, DxP3 ✓, DxP5 ✓, DxP7 ✓*
- ☒ Check DXPs with output signal. *" ✓, " ✓, " ✓, " ✓*
- ☒ Plug IO-Link device into each port in turn and verify the right IOLDevice Output turns on and correct VID/DID shows up in the Common Data. Checking the VID/DID verifies the Read MSG was setup and working correctly. *VID: 317 DID: 1479139*
- ☒ Trigger each IO-Link Port to DI setting and make sure the correct port goes to DI.
- ☒ Test IOL port in DI mode with inputs
- ☒ Trigger each DXP Disable Setting and make sure the correct port is disabled.
- ☒ Import Universal Device Info and point it at a port that has a device.
- ☒ Write the App Tag to the device. This will test the Write MSG is working correctly.
- ☒ Import Generic ^{Process data} Device AOI and point it to each Port in turn, read an input and write an output. This will verify the Port Process data mapping.