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TURCK

IO-Link Block AOI Test Report

Date of Test: March 21, 2024

Name of Test Engineer: Jose Sanchez

Product Description of Tested Product: TBEN-L4-810L + AOI

Product Firmware Rev: 3.4.2.0

PLC used to Test Product: 1769-L30ERMS

Version of StudioLogix used to Test Product: V32 (Mini)

Name of AOI File Tested: TBEN-Lx-810L_AOI_V1_1.L5X

Version of AOI File Tested: 1.1

Test Notes:

Generic AOI does not work
- In words not transferring from common data to AOI in words.

Test Passed: Yes / (No)

Test Plan

- [x] Import L5K into Studio, create catalog ACD, verify all IO-Link Blocks are present in project.
- [x] Create Blank ACD Project for your Test PLC of choice.
- [x] Drag over IO-Link Block Device and corresponding Block AOI from Catalog to Project
- [x] Verify AOI Version matches Rev file and Revision Notes from txt file in github.
- [ ] Verify AOI Description matches txt file in github.
- [x] Configure IP Address of local block.
- [x] Bring copy of 8IOL AOI into Logic
- [x] Create tag instances of AOI, Common Data, Read MSG, and Write MSG
- [x] Tie TBEN I, O, and C Data to AOI (Change the order in AOI?) I/O/C to C/I/O
- [x] Setup ~~SEND~~ Read MSG instructions with correct PATH, Service Code 4b, Class 67, Send and Receive Arrays to Common Data Send/Receive Arrays
- [x] Setup Write MSG instructions the same but change Class to 68 & Service code 4C?
- [x] Download Program to PLC (Power cycle block?)
- [x] Check all DIs with signal (Note: All IO-Link Pins will not show LED but will show change of signal state, this is because IO-Link is still active just not throwing a diagnostic error)
- [x] Check DXPs with output signal DXP work but DI do not / DI works in DI mode.
- [x] 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.
- [x] Trigger each IO-Link Port to DI setting and make sure the correct port goes to DI.
- [x] 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.
- [x] Write the App Tag to the device. This tests the Write MSG is working correctly. Clear before?
- [x] Import Generic 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. App Specific tag requested a bit confusing. Change to APP tag to be written?

Generic AOI not working properly.