
File name: IOL_ProfileIDOverview_V10_Mar2019.docx
Version: 1.00
Release Date: 2019-03-20

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Purpose

This document contains an overview of Profile Identifiers specified for IO-Link. The document is intended as a reference for use of IO-Link profile devices and functions within user applications.

The Profile Identifiers are referenced in IO-Link profile devices:

- within IODD: node 'Features', attribute 'profileCharacteristic'
- within Device: variable 'Profile Characteristic' (index 13)

Device Profiles

ProfileID hex	ProfileID dec	Name short	Name long	Type	Reference
0x0001	1	GPS	Generic Profiled Sensor	SSP Type 0	Smart Sensor [2]
0x0002	2	FSS	Fixed Switching Sensor	SSP Type 1.1	Smart Sensor [2]
0x0003	3	FSS	Fixed Switching Sensor, disable function	SSP Type 1.2	Smart Sensor [2]
0x0004	4	AdSS	Adjustable Switching Sensor, single value teach	SSP Type 2.1	Smart Sensor [2]
0x0005	5	AdSS	Adjustable Switching Sensor, two value teach	SSP Type 2.2	Smart Sensor [2]
0x0006	6	AdSS	Adjustable Switching Sensor, dynamic teach	SSP Type 2.3	Smart Sensor [2]
0x0007	7	AdSS	Adjustable Switching Sensor, single value teach, disable function	SSP Type 2.4	Smart Sensor [2]
0x0008	8	AdSS	Adjustable Switching Sensor, two value teach, disable function	SSP Type 2.5	Smart Sensor [2]
0x0009	9	AdSS	Adjustable Switching Sensor, dynamic teach, disable function	SSP Type 2.6	Smart Sensor [2]
0x000A	10	DMS	Measuring Sensor	SSP Type 3.1	Smart Sensor [2]
0x000B	11	DMS	Measuring Sensor, high resolution	SSP Type 3.2	Smart Sensor [2]
0x000C	12	DMS	Measuring Sensor, disable function	SSP Type 3.3	Smart Sensor [2]
0x000D	13	DMS	Measuring Sensor, high resolution, disable function	SSP Type 3.4	Smart Sensor [2]

Common Application Profiles

ProfileID hex	ProfileID dec	Name short	Name long	Reference
0x0030	48	BLOB	BLOB transfer	Blob & FW Update [4]
0x0031	49	FWUPD	Firmware Update	Blob & FW Update [4]
0x4000	16384	I&D	Identification & Diagnosis	Common Profile [1]
0x4001	16385		IO-Link Safety – FS-Device	IO-Link Safety [3]

Function Classes

ProfileID hex	ProfileID dec	Name short	Name long	Reference
0x8000	32768		Device Identification	Common Profile [1]
0x8001	32769		Multi-channel, two setpoint switching sensor	Smart Sensor [2]
0x8002	32770	PDV	Process Data Variable	Common Profile [1]
0x8003	32771		Device Diagnosis	Common Profile [1]
0x8004	32772		Teach Channel	Smart Sensor [2]

References:

- [1] [IO-Link Common Profile, Version 1.0, July 2017, Order No. 10.072](#)
- [2] [IO-Link Smart Sensor Profile 2nd Edition, Version 1.0, March 2017, Order No: 10.042](#)
- [3] [IO-Link Safety Extensions with SMI, Version 1.1, April 2018, Order No: 10.092](#)
- [4] [IO-Link Profile BLOB Transfer & Firmware Update, Version 1.0, June 2016, Order No: 10.082](#)
and
[Urgent Corrigendum related to BLOB Transfer & Firmware Update V1.0, Version 1.0, April 2018, Order No: 10.182](#)

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