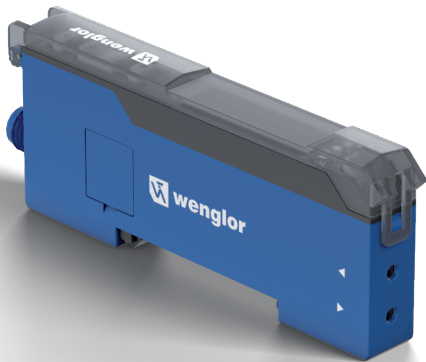


EN

P1XD2xx-Master

Fiber-optic amplifier



Interface Description

IO-Link P1XD2xx-Master

Vendor ID

| Product | hex | dec | hex (Bytes) | dec (Bytes) |
|-----------------------|--------|-----|-------------|-------------|
| wenglor sensoric GmbH | 0x0057 | 87 | 00 57 | 0 87 |

Device ID

| Product | hex | dec | hex (Bytes) | dec (Bytes) |
|----------------|----------|-----|-------------|-------------|
| P1XD202-Master | 0x000056 | 86 | 00 00 56 | 0 0 86 |
| P1XD204-Master | 0x000057 | 87 | 00 00 57 | 0 0 87 |
| P1XD212-Master | 0x000058 | 88 | 00 00 58 | 0 0 88 |
| P1XD214-Master | 0x000059 | 89 | 00 00 59 | 0 0 89 |

IO-Link Information

| | |
|--------------------------------------|---------|
| IO-Link Version: | V1.1.3 |
| Data Storage: | Yes |
| Blockparameter: | Yes |
| Min Cycle Time: | 2 ms |
| SIO-Mode: | Yes |
| COM-Mode: | COM3 |
| ISDU: | Yes |
| Process data In (Device to Master): | 256 Bit |
| Process data Out (Master to Device): | 8 Bit |

IO-Link Profiles

Common Profile
Function Class Identification
Function Class Diagnosis
Smart Sensor Profil - Transducer Disable

Process data

Process Data Input (Device -> Master)

| Subindex | Name | Bit Offset | Length | Range | |
|----------|--------------------|------------|--------|-----------------------|---------------------|
| 1 | Signal Master | 240 | 16 Bit | 0 .. 9999 | wenglor specific |
| 2 | Signal Sub Unit 1 | 224 | 16 Bit | 0 .. 9999 | wenglor specific |
| 3 | Signal Sub Unit 2 | 208 | 16 Bit | 0 .. 9999 | wenglor specific |
| 4 | Signal Sub Unit 3 | 192 | 16 Bit | 0 .. 9999 | wenglor specific |
| 5 | Signal Sub Unit 4 | 176 | 16 Bit | 0 .. 9999 | wenglor specific |
| 6 | Signal Sub Unit 5 | 160 | 16 Bit | 0 .. 9999 | wenglor specific |
| 7 | Signal Sub Unit 6 | 144 | 16 Bit | 0 .. 9999 | wenglor specific |
| 8 | Signal Sub Unit 7 | 128 | 16 Bit | 0 .. 9999 | wenglor specific |
| 9 | Signal Sub Unit 8 | 112 | 16 Bit | 0 .. 9999 | wenglor specific |
| 10 | Signal Sub Unit 9 | 96 | 16 Bit | 0 .. 9999 | wenglor specific |
| 11 | Signal Sub Unit 10 | 80 | 16 Bit | 0 .. 9999 | wenglor specific |
| 12 | Signal Sub Unit 11 | 64 | 16 Bit | 0 .. 9999 | wenglor specific |
| 13 | Signal Sub Unit 12 | 48 | 16 Bit | 0 .. 9999 | wenglor specific |
| 14 | Signal Sub Unit 13 | 32 | 16 Bit | 0 .. 9999 | wenglor specific |
| 15 | Error | 31 | 1 Bit | 0 = false 1 = true | wenglor specific |
| 16 | Warning | 30 | 1 Bit | 0 = false 1 = true | wenglor specific |
| 17 | Global SSC1 | 29 | 1 Bit | 0 = false 1 = true | Smart Sensor Profil |
| 18 | Global SSC2 | 28 | 1 Bit | 0 = false 1 = true | Smart Sensor Profil |
| 19 | Master SSC1 | 27 | 1 Bit | 0 = false 1 = true | Smart Sensor Profil |
| 20 | Master SSC2 | 26 | 1 Bit | 0 = false 1 = true | Smart Sensor Profil |
| 21 | Sub Unit 1 - SSC1 | 25 | 1 Bit | 0 = false 1 = true | Smart Sensor Profil |
| 22 | Sub Unit 1 - SSC2 | 24 | 1 Bit | 0 = false 1 = true | Smart Sensor Profil |
| 23 | Sub Unit 2 - SSC1 | 23 | 1 Bit | 0 = false 1 = true | Smart Sensor Profil |
| 24 | Sub Unit 2 - SSC2 | 22 | 1 Bit | 0 = false 1 = true | Smart Sensor Profil |
| 25 | Sub Unit 3 - SSC1 | 21 | 1 Bit | 0 = false 1 = true | Smart Sensor Profil |
| 26 | Sub Unit 3 - SSC2 | 20 | 1 Bit | 0 = false 1 = true | Smart Sensor Profil |
| 27 | Sub Unit 4 - SSC1 | 19 | 1 Bit | 0 = false 1 = true | Smart Sensor Profil |
| 28 | Sub Unit 4 - SSC2 | 18 | 1 Bit | 0 = false 1 = true | Smart Sensor Profil |
| 29 | Sub Unit 5 - SSC1 | 17 | 1 Bit | 0 = false 1 = true | Smart Sensor Profil |
| 30 | Sub Unit 5 - SSC2 | 16 | 1 Bit | 0 = false 1 = true | Smart Sensor Profil |
| 31 | Sub Unit 6 - SSC1 | 15 | 1 Bit | 0 = false 1 = true | Smart Sensor Profil |
| 32 | Sub Unit 6 - SSC2 | 14 | 1 Bit | 0 = false 1 = true | Smart Sensor Profil |
| 33 | Sub Unit 7 - SSC1 | 13 | 1 Bit | 0 = false 1 = true | Smart Sensor Profil |

| | | | | | |
|----|--------------------|----|-------|-----------------------|---------------------|
| 34 | Sub Unit 7 - SSC2 | 12 | 1 Bit | 0 = false 1 = true | Smart Sensor Profil |
| 35 | Sub Unit 8 - SSC1 | 11 | 1 Bit | 0 = false 1 = true | Smart Sensor Profil |
| 36 | Sub Unit 8 - SSC2 | 10 | 1 Bit | 0 = false 1 = true | Smart Sensor Profil |
| 37 | Sub Unit 9 - SSC1 | 9 | 1 Bit | 0 = false 1 = true | Smart Sensor Profil |
| 38 | Sub Unit 9 - SSC2 | 8 | 1 Bit | 0 = false 1 = true | Smart Sensor Profil |
| 39 | Sub Unit 10 - SSC1 | 7 | 1 Bit | 0 = false 1 = true | Smart Sensor Profil |
| 40 | Sub Unit 10 - SSC2 | 6 | 1 Bit | 0 = false 1 = true | Smart Sensor Profil |
| 41 | Sub Unit 11 - SSC1 | 5 | 1 Bit | 0 = false 1 = true | Smart Sensor Profil |
| 42 | Sub Unit 11 - SSC2 | 4 | 1 Bit | 0 = false 1 = true | Smart Sensor Profil |
| 43 | Sub Unit 12 - SSC1 | 3 | 1 Bit | 0 = false 1 = true | Smart Sensor Profil |
| 44 | Sub Unit 12 - SSC2 | 2 | 1 Bit | 0 = false 1 = true | Smart Sensor Profil |
| 45 | Sub Unit 13 - SSC1 | 1 | 1 Bit | 0 = false 1 = true | Smart Sensor Profil |
| 46 | Sub Unit 13 - SSC2 | 0 | 1 Bit | 0 = false 1 = true | Smart Sensor Profil |

| | Octet 0/2/4...26 (MSB) | | | | | | | | | | | | | | Octet 1/3/5...27 (LSB) | | | | | | Octet 28 | | | | Octet 29 | | | | | | | |
|-----------------|------------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|------------------------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|----|----|
| Subindex | 1...14 | | | | | | | | | | | | | | 15 | 16 | 17 | 18 | 19 | 20 | 21 | 22 | 23 | 24 | 25 | 26 | 27 | 28 | 29 | 30 | | |
| Bit Offset | 255 | 254 | 253 | 252 | 251 | 250 | 249 | 248 | 247 | 246 | 245 | 244 | 243 | 242 | 241 | 240 | 31 | 30 | 29 | 28 | 27 | 26 | 25 | 24 | 23 | 22 | 21 | 20 | 19 | 18 | 17 | 16 |
| | Signal 0...9999 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

| | Octet 30 | | | | | | | | Octet 31 | | | | | | | |
|-----------------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|-----------|
| Subindex | 30 | 31 | 32 | 33 | 34 | 35 | 36 | 37 | 38 | 39 | 40 | 41 | 42 | 43 | 44 | 45 |
| Bit Offset | 15 | 14 | 13 | 12 | 11 | 10 | 9 | 8 | 7 | 6 | 5 | 4 | 3 | 2 | 1 | 0 |

Process Data Output (Master -> Device)

| Subindex | Name | Bit Offset | Length | Range |
|----------|------------------------------|------------|--------|-----------------------------|
| 1 | Control Signal (LED Control) | 0 | 1 Bit | 0 = Enabled 1 = Disabled |
| 2 | Find Me | 1 | 1 Bit | 0 = Off 1 = Blinking |
| 3 | not used | 2 | 6 Bit | |

| | Octet 0 (MSB) | | | | | | | |
|-----------------|---------------|---|---|---|---|---|----------|----------|
| Subindex | 3 | | | | | | 2 | 1 |
| Bit Offset | 7 | 6 | 5 | 4 | 3 | 2 | 1 | 0 |

Identification

| Name | Index (hex) | Index (dec) | Sub-index | R/W | Datatype | Data Storage | Dynamic | Modify others | Default value | Range |
|----------------------------|-------------|-------------|-----------|-----|----------------|--------------|---------|---------------|--------------------------|-------------------------|
| Information | | | | | | | | | | |
| Vendor Name | 0x0010 | 16 | 0 | R | String | | | | wenglor sensoric GmbH | |
| Vendor Text | 0x0011 | 17 | 0 | R | String | | | | the innovative family | |
| Product Name | 0x0012 | 18 | 0 | R | String | | | | P1XD2xx-Master | |
| Product ID | 0x0013 | 19 | 0 | R | String | | | | P1XD2xx-Master | |
| Product Text | 0x0014 | 20 | 0 | R | String | | | | Fiber Optic Cable Sensor | |
| Serial Number | 0x0015 | 21 | 0 | R | String | | | | - | |
| Hardware Version | 0x0016 | 22 | 0 | R | String | | | | - | |
| Firmware Version | 0x0017 | 23 | 0 | R | String | | | | - | |
| Tags | | | | | | | | | | |
| Application Specific Tag | 0x0018 | 24 | 0 | R/W | String 32 Byte | X | | | *** | |
| Function Tag | 0x0019 | 25 | 0 | R/W | String 32 Byte | X | | | *** | |
| Location Tag | 0x001A | 26 | 0 | R/W | String 32 Byte | X | | | *** | |
| Sensor Localisation | | | | | | | | | | |
| Find Me | 0x1200 | 4608 | 0 | R/W | UInt8 | | X | | 0 = Off | 0 = Off 1 = Blinking |

Parameter

| Name | Index (hex) | Index (dec) | Sub-index | R/W | Datatype | Data Storage | Dynamic | Modify others | NFC | Default value | Range |
|---|-------------|-------------|-----------|-----|----------|--------------|---------|---------------|-----|---------------|--|
| Reset Functions | | | | | | | | | | | |
| System Commands | 0x0002 | 2 | 0 | W | UInt8 | | | X | | - | Device Reset = 0x80 (128) Application Reset = 0x81 (129) Restore Factory Settings = 0x82 (130) Back-to-box = 0x83 (131) |
| General Device Settings | | | | | | | | | | | |
| Device Access Locks.Local Parameterization Lock | 0x000C | 12 | 3 | R/W | Bool | X | | | | 0 = Unlocked | 0 = Unlocked 1 = Locked |
| NFC Disable | 0x0305 | 773 | 0 | R/W | UInt8 | X | | | | 0 = Unlocked | 0 = Unlocked 1 = Read Only 2 = Locked |
| Cascade Mode Settings | | | | | | | | | | | |
| Number of Connected Sensors | 0x500 | 1280 | 0 | R | UInt8 | | | | X | | 1...14 |
| Selected Sensor | 0x501 | 1281 | 0 | R/W | UInt8 | | | | X | 0 | 0...13 |
| Selected Sensor Type | 0x502 | 1282 | 0 | R | UInt8 | | | | | 0 = Master | 0 = Master 1 = Sub Unit |
| Master Settings(Selected Sensor = 0) | | | | | | | | | | | |
| Device Settings | | | | | | | | | | | |
| Individual System Command | 0x102E | 4142 | 0 | W | UInt8 | | | | | | 1 = Restore Factory Settings |

| Name | Index (hex) | Index (dec) | Sub-index | R/W | Datatype | Data Storage | Dynamic | Modify others | NFC | Default value | Range |
|--|-------------|-------------|-----------|-----|----------|--------------|---------|---------------|-----|------------------|---|
| Measurement Settings | | | | | | | | | | | |
| Emitted Light | 0x00E0 | 224 | 0 | R/W | Uint8 | X | | | X | 0 = On | 0 = On 1 = Off |
| Noise Filter | 0x00D0 | 208 | 0 | R/W | Uint8 | X | | | X | 2 = Minimum | 0 = Maximum 1 = Medium 2 = Minimum |
| Emitting Power | 0x0116 | 278 | 0 | R/W | Uint8 | X | | | X | 0 = Maximum | 0 = Maximum 1 = Medium 2 = Minimum |
| Emitting Color | 0x0117 | 279 | 0 | R/W | Uint8 | X | | | X | 2 = Pink | 0 = Red 1 = Blue 2 = Pink |
| Gain | 0x0118 | 280 | 0 | R/W | Uint8 | X | | | X | 0 = Low | 0 = Low 1 = High |
| SSC1 | | | | | | | | | | | |
| Teach Mode | 0x0290 | 656 | 0 | R/W | Uint8 | X | | | X | 0 = Normal Teach | 0 = Normal Teach 1 = Jump detection 2 = Minimal Teach 3 = Minimal Teach with Dynamic Readjustment 4 = Dynamic Teach 5 = Background Teach 6 = Window Teach |
| Teach-In | 0x0200 | 512 | 0 | W | | | | X | | | 1 = Teach-In 2 = Dynamic Teach Start 3 = Dynamic Teach Stop |
| Teach Status | 0x01E0 | 480 | 0 | R | Uint8 | | | | | 0 = Idle | 0 = Idle 1 = Ongoing 2 = Last Teach Failed 3 = Last Teach Successful 4 = Last Teach Warning 5 = Teach Type Changed 6 = Last teach canceled 7 = Last teach not possible: emitter disabled 8 = Locked |
| Hysteresis | 0x0250 | 592 | 0 | R/W | Uint8 | X | | | X | 2 = Minimum | 0 = Maximum 1 = Medium 2 = Minimum |
| Switching Point | 0x0270 | 624 | 0 | R/W | Uint16 | X | | | X | | 0...9999 |
| SSC1 (Teach Mode = Jump Detection) | | | | | | | | | | | |
| Signal Jump Minimum | 0x02A0 | 672 | 0 | R/W | Uint16 | X | | | X | 300 | 200 ... 5000 |
| Signal Jump Direction | 0x02A2 | 674 | 0 | R/W | Uint8 | X | | | X | 0 = Positive | 0 = Positive 1 = Negative 2 = Both |
| Signal Jump Impulse | 0x02A3 | 675 | 0 | R/W | Uint16 | X | | | X | 0 = Hold | 0 = Hold 1...10000 ms |
| Signal Jump Cycle Offset | 0x02A4 | 676 | 0 | R/W | Uint16 | X | | | X | 2000 | 50...20000 |
| Maximum Recorded Signal Jump | 0x02AF | 687 | 0 | R | Uint32 | | X | | | | 0...9999 |
| Signal Jump Command | 0x02C0 | 704 | 0 | W | Uint8 | | | X | | | 1 = Reset Maximum Recorded Signal Jump SSC1 |
| SSC1 (Teach Mode = Minimum Teach with Dynamic Readjustment) | | | | | | | | | | | |
| Teach Percentage | 0x02F0 | 752 | 0 | R/W | Uint8 | X | | X | X | 10 | 3 ... 30 % |
| Dynamic Readjustment Storage | 0x0340 | 832 | 0 | R/W | Uint8 | X | | | X | 1 = On | 0 = Off 1 = On |
| Dynamic Readjustment Time | 0x0320 | 800 | 0 | R/W | Uint16 | X | | | X | 3600 | 5...3600 s |
| Switch Point | 0x0278 | 632 | 0 | R | Uint16 | | | | X | | 0...9999 |
| SSC1 (Teach Mode = Dynamic Teach) | | | | | | | | | | | |
| Dynamic Teach Duration | 0x02E0 | 736 | 0 | R/W | Uint16 | X | | | X | 60 | 10...600 s |
| SSC1 (Teach Mode = Window Teach) | | | | | | | | | | | |
| Window Size High | 0x0261 | 609 | 0 | R/W | Uint16 | X | | | X | 1000 | 50...7000 |
| Window Size Low | 0x0260 | 608 | 0 | R/W | Uint16 | X | | | X | 1000 | 50...7000 |

| Name | Index (hex) | Index (dec) | Sub-index | R/W | Datatype | Data Storage | Dynamic | Modify others | NFC | Default value | Range |
|--|-------------|-------------|-----------|-----|----------|--------------|---------|---------------|-----|------------------|---|
| SSC2 | | | | | | | | | | | |
| Teach Mode | 0x0291 | 657 | 0 | R/W | Uint8 | X | | | X | 0 = Normal Teach | 0 = Normal Teach 1 = Jump detection 2 = Minimal Teach 3 = Minimal Teach with Dynamic Readjustment 4 = Dynamic Teach 5 = Background Teach 6 = Window Teach |
| Teach-In | 0x0201 | 513 | 0 | W | | | | X | | | 1 = Teach-In |
| Teach Status | 0x01E1 | 481 | 0 | R | Uint8 | | | | | 0 = Idle | 0 = Idle 1 = Ongoing 2 = Last Teach Failed 3 = Last Teach Successful 4 = Last Teach Warning 5 = Teach Type Changed 6 = Last teach canceled 7 = Last teach not possible: emitter disabled 8 = Locked |
| Hysteresis | 0x0251 | 593 | 0 | R/W | Uint8 | X | | | X | 2 = Minimum | 0 = Maximum 1 = Medium 2 = Low |
| Switching Point | 0x0271 | 625 | 0 | R/W | Uint16 | X | | | X | | 0 ... 9999 |
| SSC2 (Teach Mode = Jump Detection) | | | | | | | | | | | |
| Signal Jump Minimum | 0x02B0 | 688 | 0 | R/W | Uint16 | X | | | X | 300 | 200...5000 |
| Signal Jump Direction | 0x02B2 | 690 | 0 | R/W | Uint8 | X | | | X | 0 = Positive | 0 = Positive 1 = Negative 2 = Both |
| Signal Jump Impulse | 0x02B3 | 691 | 0 | R/W | Uint16 | X | | | X | 0 = Hold | 0 = Hold 1...10000 ms |
| Signal Jump Cycle Offset | 0x02B4 | 692 | 0 | R/W | Uint16 | X | | | X | 2000 | 50...20000 |
| Maximum Recorded Signal Jump | 0x02BF | 703 | 0 | R | Uint32 | | X | | | | 0...9999 |
| Signal Jump Command | 0x02C0 | 704 | 0 | W | Uint8 | | | X | | | 2 = Reset Maximum Recorded Signal Jump SSC2 |
| SSC2 (Teach Mode = Minimum Teach with Dynamic Readjustment) | | | | | | | | | | | |
| Teach Percentage | 0x02F1 | 753 | 0 | R/W | Uint8 | X | | X | X | 10 | 3...30 % |
| Dynamic Readjustment Storage | 0x0341 | 833 | 0 | R/W | Uint8 | X | | | X | 1 = On | 0 = Off 1 = On |
| Dynamic Readjustment Time | 0x0321 | 801 | 0 | R/W | Uint16 | X | | | X | 3600 | 5...3600 s |
| Switch Point | 0x0279 | 633 | 0 | R | Uint16 | | | | X | | 0...9999 |
| SSC2 (Teach Mode = Dynamic Teach) | | | | | | | | | | | |
| Dynamic Teach Duration | 0x02E1 | 737 | 0 | R/W | Uint16 | X | | | X | 60 | 10...600 s |
| SSC2 (Teach Mode = Window Teach) | | | | | | | | | | | |
| Window Size High | 0x0263 | 611 | 0 | R/W | Uint16 | X | | | X | 1000 | 50...7000 |
| Window Size Low | 0x0262 | 610 | 0 | R/W | Uint16 | X | | | X | 1000 | 50...7000 |
| Sub Unit Settings(Selected Sensor != 0) | | | | | | | | | | | |
| Information | | | | | | | | | | | |
| Product Name | 0x1003 | 4099 | 0 | R | String | | | | | P1XD2xx | |
| Serial Number | 0x1000 | 4096 | 0 | R | String | | | | | - | |
| Hardware Version | 0x1001 | 4097 | 0 | R | String | | | | | - | |
| Firmware Version | 0x1002 | 4098 | 0 | R | String | | | | | - | |
| Device Settings | | | | | | | | | | | |
| Find Me | 0x1004 | 4100 | 0 | R/W | Uint8 | | X | | | 0 = Off | 0 = Off 1 = Blinking |
| Individual System Command | 0x1005 | 4142 | 0 | W | Uint8 | | | | X | | 1 = Restore Factory Settings |

| Name | Index (hex) | Index (dec) | Sub-index | R/W | Datatype | Data Storage | Dynamic | Modify others | NFC | Default value | Range |
|--|-------------|-------------|-----------|-----|----------|--------------|---------|---------------|-----|------------------|--|
| Measurement Settings | | | | | | | | | | | |
| Emitted Light | 0x1008 | 4104 | 0 | R/W | Uint8 | X | | | X | 0 = On | 0 = On 1 = Off |
| Noise Filter | 0x1007 | 4103 | 0 | R/W | Uint8 | X | | | X | 2 = Minimum | 0 = Maximum 1 = Medium 2 = Minimum |
| Emitting Power | 0x1006 | 4102 | 0 | R/W | Uint8 | X | | | X | 0 = Maximum | 0 = Maximum 1 = Medium 2 = Minimum |
| Emitting Color | 0x102C | 4140 | 0 | R/W | Uint8 | X | | | X | 2 = Pink | 0 = Red 1 = Blue 2 = Pink |
| Gain | 0x102D | 4141 | 1 | R/W | Uint9 | X | | | X | 0 = Low | 0 = Low 1 = High |
| SSC1 | | | | | | | | | | | |
| Teach Mode | 0x1009 | 4105 | 0 | R/W | Uint8 | X | | | X | 0 = Normal Teach | 0 = Normal Teach 1 = Jump detection 2 = Minimal Teach 3 = Minimal Teach with Dynamic Readjustment 4 = Dynamic Teach 5 = Background Teach 6 = Window Teach |
| Teach-In | 0x100B | 4107 | 0 | W | | | | X | | | 1 = Teach-In 2 = Dynamic Teach Start 3 = Dynamic Teach Stop |
| Teach Status | 0x100D | 4109 | 0 | R | Uint8 | | | | | 0 = Idle | 0 = Idle 1 = Ongoing 2 = Last Teach Failed 3 = Last Teach Successful 4 = Last Teach Warning 5 = Teach Type Changed 6 = Last teach canceled 7 = Last teach not possible: emitter disabled 8 = Locked |
| Hysteresis | 0x100F | 4111 | 0 | R/W | Uint8 | X | | | X | 2 = Minimum | 0 = Maximum 1 = Medium 2 = Minimum |
| Switching Point | 0x1011 | 4113 | 0 | R/W | Uint16 | X | | | X | | 0 ... 9999 |
| SSC1 (Teach Mode = Jump Detection) | | | | | | | | | | | |
| Signal Jump Minimum | 0x1013 | 4115 | 0 | R/W | Uint16 | X | | | X | 300 | 200...5000 |
| Signal Jump Direction | 0x1014 | 4116 | 0 | R/W | Uint8 | X | | | X | 0 = Positive | 0 = Positive 1 = Negative 2 = Both |
| Signal Jump Impulse | 0x1015 | 4117 | 0 | R/W | Uint16 | X | | | X | 0 = Hold | 0 = Hold 1...10000 ms |
| Signal Jump Cycle Offset | 0x1016 | 4118 | 0 | R/W | Uint16 | X | | | X | 2000 | 50...20000 |
| Maximum Recorded Signal Jump | 0x101B | 4123 | 0 | R | Uint32 | | X | | | | 0...9999 |
| Signal Jump Command | 0x101D | 4125 | 0 | W | Uint8 | | | X | | | 1 = Reset Maximum Recorded Signal Jump SSC1 |
| SSC1 (Teach Mode = Minimum Teach with Dynamic Readjustment) | | | | | | | | | | | |
| Teach Percentage | 0x1024 | 4132 | 0 | R/W | Uint8 | X | | X | X | 10 | 3 ... 30 % |
| Dynamic Readjustment Storage | 0x1028 | 4136 | 0 | R/W | Uint8 | X | | | X | 1 = On | 0 = Off 1 = On |
| Dynamic Readjustment Time | 0x1026 | 4134 | 0 | R/W | Uint16 | X | | | X | 3600 | 5...3600 s |
| Switch Point | 0x102A | 4138 | 0 | R | Uint16 | | | | X | | 0...9999 |
| SSC1 (Teach Mode = Dynamic Teach) | | | | | | | | | | | |
| Dynamic Teach Duration | 0x101E | 4126 | 0 | R/W | Uint16 | X | | | X | 60 | 10...600 s |

| Name | Index (hex) | Index (dec) | Sub-index | R/W | Datatype | Data Storage | Dynamic | Modify others | NFC | Default value | Range |
|--|-------------|-------------|-----------|-----|----------|--------------|---------|---------------|-----|--|---|
| SSC1 (Teach Mode = Window Teach) | | | | | | | | | | | |
| Window Size High | 0x1020 | 4128 | 0 | R/W | Uint16 | X | | | X | 1000 | 50...7000 |
| Window Size Low | 0x1021 | 4129 | 0 | R/W | Uint16 | X | | | X | 1000 | 50...7000 |
| SSC2 | | | | | | | | | | | |
| Teach Mode | 0x100A | 4106 | 0 | R/W | Uint8 | X | | | X | 0 = Normal Teach | 0 = Normal Teach 1 = Jump detection 2 = Minimal Teach 3 = Minimal Teach with Dynamic Readjustment 4 = Dynamic Teach 5 = Background Teach 6 = Window Teach |
| Teach-In | 0x100C | 4108 | 0 | W | | | | X | | | 1 = Teach-In |
| Teach Status | 0x100E | 4110 | 0 | R | Uint8 | | | | | 0 = Idle | 0 = Idle 1 = Ongoing 2 = Last Teach Failed 3 = Last Teach Successful 4 = Last Teach Warning 5 = Teach Type Changed 6 = Last teach canceled 7 = Last teach not possible: emitter disabled 8 = Locked |
| Hysteresis | 0x1010 | 4112 | 0 | R/W | Uint8 | X | | | X | 2 = Minimum | 0 = Maximum 1 = Medium 2 = Low |
| Switching Point | 0x1012 | 4114 | 0 | R/W | Uint16 | X | | | X | | 0 ... 9999 |
| SSC2 (Teach Mode = Jump Detection) | | | | | | | | | | | |
| Signal Jump Minimum | 0x1017 | 4119 | 0 | R/W | Uint16 | X | | | X | 300 | 200 ... 5000 |
| Signal Jump Direction | 0x1018 | 4120 | 0 | R/W | Uint8 | X | | | X | 0 = Positive | 0 = Positive 1 = Negative 2 = Both |
| Signal Jump Impulse | 0x1019 | 4121 | 0 | R/W | Uint16 | X | | | X | 0 = Hold | 0 = Hold 1...10000 ms |
| Signal Jump Cycle Offset | 0x101A | 4122 | 0 | R/W | Uint16 | X | | | X | 2000 | 50...20000 |
| Maximum Recorded Signal Jump | 0x101C | 4124 | 0 | R | Uint32 | | X | | | | 0...9999 |
| Signal Jump Command | 0x101D | 4125 | 0 | W | Uint8 | | | X | | | 2 = Reset Maximum Recorded Signal Jump SSC2 |
| SSC2 (Teach Mode = Minimum Teach with Dynamic Readjustment) | | | | | | | | | | | |
| Teach Percentage | 0x1025 | 4133 | 0 | R/W | Uint8 | X | | X | X | 10 | 3...30 % |
| Dynamic Readjustment Storage | 0x1029 | 4137 | 0 | R/W | Uint8 | X | | | X | 1 = On | 0 = Off 1 = On |
| Dynamic Readjustment Time | 0x1027 | 4135 | 0 | R/W | Uint16 | X | | | X | 3600 | 5...3600 s |
| Switch Point | 0x102B | 4139 | 0 | R | Uint16 | | | | X | | 0...9999 |
| SSC2 (Teach Mode = Dynamic Teach) | | | | | | | | | | | |
| Dynamic Teach Duration | 0x101F | 4127 | 0 | R/W | Uint16 | X | | | X | 60 | 10...600 s |
| SSC2 (Teach Mode = Window Teach) | | | | | | | | | | | |
| Window Size High | 0x1022 | 4130 | 0 | R/W | Uint16 | X | | | X | 1000 | 50...7000 |
| Window Size Low | 0x1023 | 4131 | 0 | R/W | Uint16 | X | | | X | 1000 | 50...7000 |
| Pin Function | | | | | | | | | | | |
| A1 Pin Function | 0x0040 | 64 | 0 | R/W | Uint8 | X | | X | X | 0 = Switching Output SSC 1 | 0 = Switching Output SSC1 1 = Error Output 2 = Warning Output |
| E/A2 Pin Function | 0x0041 | 65 | 0 | R/W | Uint8 | X | | X | X | P1XD2x2: 0 = Switching Output SSC2 P1XD2x4: 4 = Teach Input | 0 = Switching Output SSC2 1 = Error Output 2 = Warning Output 4 = Teach Input 5 = Disabled 6 = Antivalent Output of SSC1 |

| Name | Index (hex) | Index (dec) | Sub-index | R/W | Datatype | Data Storage | Dynamic | Modify others | NFC | Default value | Range |
|-------------------------------------|-------------|-------------|-----------|-----|----------|--------------|---------|---------------|-----|--|-------------------------------------|
| Digital Outputs | | | | | | | | | | | |
| A1 (SSC) | | | | | | | | | | | |
| A1 NO/NC | 0x0210 | 528 | 0 | R/W | Uint8 | X | | | X | 0 = NO | 0 = NO 1 = NC |
| A1 NPN/PNP/P-P | 0x0220 | 544 | 0 | R/W | Uint8 | X | | | X | P1XD20x: 0 = PNP P1XD21x: 1 = NPN | 0 = PNP 1 = NPN 2 = Push-Pull |
| On Delay | 0x0050 | 80 | 0 | R/W | Uint16 | X | | | X | 0 | 0...10000 ms |
| Off Delay | 0x0060 | 96 | 0 | R/W | Uint16 | X | | | X | 0 | 0...10000 ms |
| Impulse | 0x0070 | 112 | 0 | R/W | Uint16 | X | | | X | 0 | 0...10000 ms |
| A1 (Error or Warning Output) | | | | | | | | | | | |
| A1 NO/NC | 0x0210 | 528 | 0 | R/W | Uint8 | X | | | X | 0 = NO | 0 = NO 1 = NC |
| A1 NPN/PNP/P-P | 0x0220 | 544 | 0 | R/W | Uint8 | X | | | X | P1XD20x: 0 = PNP P1XD21x: 1 = NPN | 0 = PNP 1 = NPN 2 = Push-Pull |
| A2 (SSC) | | | | | | | | | | | |
| A2 NO/NC | 0x0211 | 529 | 0 | R/W | Uint8 | X | | | X | 0 = NO | 0 = NO 1 = NC |
| A2 NPN/PNP/P-P | 0x0221 | 545 | 0 | R/W | Uint8 | X | | | X | P1XD20x: 0 = PNP P1XD21x: 1 = NPN | 0 = PNP 1 = NPN 2 = Push-Pull |
| On Delay | 0x0051 | 81 | 0 | R/W | Uint16 | X | | | X | 0 | 0 ... 10000 ms |
| Off Delay | 0x0061 | 97 | 0 | R/W | Uint16 | X | | | X | 0 | 0 ... 10000 ms |
| Impulse | 0x0071 | 113 | 0 | R/W | Uint16 | X | | | X | 0 | 0 ... 10000 ms |
| A2 (Error or Warning Output) | | | | | | | | | | | |
| A2 NO/NC | 0x0211 | 529 | 0 | R/W | Uint8 | X | | | X | 0 = NO | 0 = NO 1 = NC |
| A2 NPN/PNP/P-P | 0x0221 | 545 | 0 | R/W | Uint8 | X | | | X | P1XD20x: 0 = PNP P1XD21x: 1 = NPN | 0 = PNP 1 = NPN 2 = Push-Pull |
| Digital Inputs | | | | | | | | | | | |
| E2 (Teach input or Trigger) | | | | | | | | | | | |
| Ub Active/Inactive | 0x0261 | 609 | 0 | R/W | Uint8 | X | | | X | 0 = Ub Active | 0 = Ub Active 1 = Ub Inactive |

Diagnosis

| Name | Index (hex) | Index (dec) | Sub-index | R/W | Datatype | Data Storage | Dynamic | Modify others | Default value | Range |
|---|-------------|-------------|-----------|-----|-------------------|--------------|---------|---------------|---------------|---|
| Master Status | | | | | | | | | | |
| Device Status | 0x0024 | 36 | 0 | R | Uint8 | | X | | 0 | 0 = Device is OK 1 = Maintenance required 2 = Out of specification 3 = Functional check 4 = Failure |
| Detailed Device Status | 0x0025 | 37 | 0 | R | Array of StringT3 | | X | | 0 | Shows the pending Events (maximum 4) |
| Additional Status Master | | | | | | | | | | |
| Additional status Information | 0x1300 | 4864 | 1 | R | Bool | | X | | 0 | Contaminated Optics |
| | | | 2 | | | | | | | Emitted Light Off |
| | | | 3 | | | | | | | Fatal Error |
| | | | 4 | | | | | | | Temperature Error |
| | | | 5 | | | | | | | Temperature High |
| | | | 6 | | | | | | | Temperature Low |
| | | | 7 | | | | | | | Undervoltage |
| | | | 8 | | | | | | | Power Fault |
| | | | 9 | | | | | | | Short Circuit |
| | | | 10 | | | | | | | Basic Communication Error |
| | | | 11 | | | | | | | General Communication Error |
| Sub Unit Status | | | | | | | | | | |
| Sub Unit Status | 0x102F | 4143 | 1 | R | Uint8 | | X | | 0 | 0 = Device is operating properly 1 = Maintenance required 2 = Out of specification 3 = Functional check 4 = Failure |
| | | | 2 | | | | | | | |
| | | | 3 | | | | | | | |
| | | | 4 | | | | | | | |
| | | | 5 | | | | | | | |
| | | | 6 | | | | | | | |
| | | | 7 | | | | | | | |
| | | | 8 | | | | | | | |
| | | | 9 | | | | | | | |
| | | | 10 | | | | | | | |
| | | | 11 | | | | | | | |
| | | | 12 | | | | | | | |
| | | | 13 | | | | | | | |
| Additional Sub Unit Status Sensor 1 | | | | | | | | | | |
| Additional Sub Unit Status. Contaminated Optic | 0x1030 | 4144 | 1 | R | Bool | | X | | 0 | Contaminated Optics |
| Additional Sub Unit Status. Emitted Light Off | | | 2 | | | | | | | Emitted Light Off |
| Additional Sub Unit Status. Fatal Error | | | 3 | | | | | | | Fatal Error |
| Additional Sub Unit Status. Temperature Error | | | 4 | | | | | | | Temperature Error |
| Additional Sub Unit Status. Temperature High | | | 5 | | | | | | | Temperature High |
| Additional Sub Unit Status. Temperature Low | | | 6 | | | | | | | Temperature Low |
| Additional Sub Unit Status. Undervoltage | | | 7 | | | | | | | Undervoltage |
| Additional Sub Unit Status. Power Fault | | | 8 | | | | | | | Power Fault |
| Additional Sub Unit Status. Short Circuit | | | 9 | | | | | | | Short Circuit |
| Additional Sub Unit Status. Basic Communication Error | | | 10 | | | | | | | Basic Communication Error |
| Additional Sub Unit Status. General Communication Error | | | 11 | | | | | | | General Communication Error |

| Name | Index (hex) | Index (dec) | Sub-index | R/W | Datatype | Data Storage | Dynamic | Modify others | Default value | Range |
|---|-------------|-------------|-----------|-----|----------|--------------|---------|---------------|---------------|-----------------------------|
| Additional Sub Unit Status Sensor 2 | | | | | | | | | | |
| Additional Sub Unit Status. Contaminated Optic | 0x1031 | 4145 | 1 | R | Bool | | | | 0 | Contaminated Optics |
| Additional Sub Unit Status. Emitted Light Off | | | 2 | | | | | | | Emitted Light Off |
| Additional Sub Unit Status. Fatal Error | | | 3 | | | | | | | Fatal Error |
| Additional Sub Unit Status. Temperature Error | | | 4 | | | | | | | Temperature Error |
| Additional Sub Unit Status. Temperature High | | | 5 | | | | | | | Temperature High |
| Additional Sub Unit Status. Temperature Low | | | 6 | | | | | | | Temperature Low |
| Additional Sub Unit Status. Undervoltage | | | 7 | | | | | | | Undervoltage |
| Additional Sub Unit Status. Power Fault | | | 8 | | | | | | | Power Fault |
| Additional Sub Unit Status. Short Circuit | | | 9 | | | | | | | Short Circuit |
| Additional Sub Unit Status. Basic Communication Error | | | 10 | | | | | | | Basic Communication Error |
| Additional Sub Unit Status. General Communication Error | | | 11 | | | | | | | General Communication Error |
| Additional Sub Unit Status Sensor 3 | | | | | | | | | | |
| Additional Sub Unit Status. Contaminated Optic | 0x1032 | 4146 | 1 | R | Bool | | | | 0 | Contaminated Optics |
| Additional Sub Unit Status. Emitted Light Off | | | 2 | | | | | | | Emitted Light Off |
| Additional Sub Unit Status. Fatal Error | | | 3 | | | | | | | Fatal Error |
| Additional Sub Unit Status. Temperature Error | | | 4 | | | | | | | Temperature Error |
| Additional Sub Unit Status. Temperature High | | | 5 | | | | | | | Temperature High |
| Additional Sub Unit Status. Temperature Low | | | 6 | | | | | | | Temperature Low |
| Additional Sub Unit Status. Undervoltage | | | 7 | | | | | | | Undervoltage |
| Additional Sub Unit Status. Power Fault | | | 8 | | | | | | | Power Fault |
| Additional Sub Unit Status. Short Circuit | | | 9 | | | | | | | Short Circuit |
| Additional Sub Unit Status. Basic Communication Error | | | 10 | | | | | | | Basic Communication Error |
| Additional Sub Unit Status. General Communication Error | | | 11 | | | | | | | General Communication Error |

| Name | Index (hex) | Index (dec) | Sub-index | R/W | Datatype | Data Storage | Dynamic | Modify others | Default value | Range |
|---|-------------|-------------|-----------|-----|----------|--------------|---------|---------------|---------------|-----------------------------|
| Additional Sub Unit Status Sensor 4 | | | | | | | | | | |
| Additional Sub Unit Status. Contaminated Optic | 0x1033 | 4147 | 1 | R | Bool | | | | 0 | Contaminated Optics |
| Additional Sub Unit Status. Emitted Light Off | | | 2 | | | | | | | Emitted Light Off |
| Additional Sub Unit Status. Fatal Error | | | 3 | | | | | | | Fatal Error |
| Additional Sub Unit Status. Temperature Error | | | 4 | | | | | | | Temperature Error |
| Additional Sub Unit Status. Temperature High | | | 5 | | | | | | | Temperature High |
| Additional Sub Unit Status. Temperature Low | | | 6 | | | | | | | Temperature Low |
| Additional Sub Unit Status. Undervoltage | | | 7 | | | | | | | Undervoltage |
| Additional Sub Unit Status. Power Fault | | | 8 | | | | | | | Power Fault |
| Additional Sub Unit Status. Short Circuit | | | 9 | | | | | | | Short Circuit |
| Additional Sub Unit Status. Basic Communication Error | | | 10 | | | | | | | Basic Communication Error |
| Additional Sub Unit Status. General Communication Error | | | 11 | | | | | | | General Communication Error |
| Additional Sub Unit Status Sensor 5 | | | | | | | | | | |
| Additional Sub Unit Status. Contaminated Optic | 0x1034 | 4148 | 1 | R | Bool | | | | 0 | Contaminated Optics |
| Additional Sub Unit Status. Emitted Light Off | | | 2 | | | | | | | Emitted Light Off |
| Additional Sub Unit Status. Fatal Error | | | 3 | | | | | | | Fatal Error |
| Additional Sub Unit Status. Temperature Error | | | 4 | | | | | | | Temperature Error |
| Additional Sub Unit Status. Temperature High | | | 5 | | | | | | | Temperature High |
| Additional Sub Unit Status. Temperature Low | | | 6 | | | | | | | Temperature Low |
| Additional Sub Unit Status. Undervoltage | | | 7 | | | | | | | Undervoltage |
| Additional Sub Unit Status. Power Fault | | | 8 | | | | | | | Power Fault |
| Additional Sub Unit Status. Short Circuit | | | 9 | | | | | | | Short Circuit |
| Additional Sub Unit Status. Basic Communication Error | | | 10 | | | | | | | Basic Communication Error |
| Additional Sub Unit Status. General Communication Error | | | 11 | | | | | | | General Communication Error |

| Name | Index (hex) | Index (dec) | Sub-index | R/W | Datatype | Data Storage | Dynamic | Modify others | Default value | Range |
|---|-------------|-------------|-----------|-----|----------|--------------|---------|---------------|---------------|-----------------------------|
| Additional Sub Unit Status Sensor 6 | | | | | | | | | | |
| Additional Sub Unit Status. Contaminated Optic | 0x1035 | 4149 | 1 | R | Bool | | | | 0 | Contaminated Optics |
| Additional Sub Unit Status. Emitted Light Off | | | 2 | | | | | | | Emitted Light Off |
| Additional Sub Unit Status. Fatal Error | | | 3 | | | | | | | Fatal Error |
| Additional Sub Unit Status. Temperature Error | | | 4 | | | | | | | Temperature Error |
| Additional Sub Unit Status. Temperature High | | | 5 | | | | | | | Temperature High |
| Additional Sub Unit Status. Temperature Low | | | 6 | | | | | | | Temperature Low |
| Additional Sub Unit Status. Undervoltage | | | 7 | | | | | | | Undervoltage |
| Additional Sub Unit Status. Power Fault | | | 8 | | | | | | | Power Fault |
| Additional Sub Unit Status. Short Circuit | | | 9 | | | | | | | Short Circuit |
| Additional Sub Unit Status. Basic Communication Error | | | 10 | | | | | | | Basic Communication Error |
| Additional Sub Unit Status. General Communication Error | | | 11 | | | | | | | General Communication Error |
| Additional Sub Unit Status Sensor 7 | | | | | | | | | | |
| Additional Sub Unit Status. Contaminated Optic | 0x1036 | 4150 | 1 | R | Bool | | | | 0 | Contaminated Optics |
| Additional Sub Unit Status. Emitted Light Off | | | 2 | | | | | | | Emitted Light Off |
| Additional Sub Unit Status. Fatal Error | | | 3 | | | | | | | Fatal Error |
| Additional Sub Unit Status. Temperature Error | | | 4 | | | | | | | Temperature Error |
| Additional Sub Unit Status. Temperature High | | | 5 | | | | | | | Temperature High |
| Additional Sub Unit Status. Temperature Low | | | 6 | | | | | | | Temperature Low |
| Additional Sub Unit Status. Undervoltage | | | 7 | | | | | | | Undervoltage |
| Additional Sub Unit Status. Power Fault | | | 8 | | | | | | | Power Fault |
| Additional Sub Unit Status. Short Circuit | | | 9 | | | | | | | Short Circuit |
| Additional Sub Unit Status. Basic Communication Error | | | 10 | | | | | | | Basic Communication Error |
| Additional Sub Unit Status. General Communication Error | | | 11 | | | | | | | General Communication Error |

| Name | Index (hex) | Index (dec) | Sub-index | R/W | Datatype | Data Storage | Dynamic | Modify others | Default value | Range |
|---|-------------|-------------|-----------|-----|----------|--------------|---------|---------------|---------------|-----------------------------|
| Additional Sub Unit Status Sensor 8 | | | | | | | | | | |
| Additional Sub Unit Status. Contaminated Optic | 0x1037 | 4151 | 1 | R | Bool | | | | 0 | Contaminated Optics |
| Additional Sub Unit Status. Emitted Light Off | | | 2 | | | | | | | Emitted Light Off |
| Additional Sub Unit Status. Fatal Error | | | 3 | | | | | | | Fatal Error |
| Additional Sub Unit Status. Temperature Error | | | 4 | | | | | | | Temperature Error |
| Additional Sub Unit Status. Temperature High | | | 5 | | | | | | | Temperature High |
| Additional Sub Unit Status. Temperature Low | | | 6 | | | | | | | Temperature Low |
| Additional Sub Unit Status. Undervoltage | | | 7 | | | | | | | Undervoltage |
| Additional Sub Unit Status. Power Fault | | | 8 | | | | | | | Power Fault |
| Additional Sub Unit Status. Short Circuit | | | 9 | | | | | | | Short Circuit |
| Additional Sub Unit Status. Basic Communication Error | | | 10 | | | | | | | Basic Communication Error |
| Additional Sub Unit Status. General Communication Error | | | 11 | | | | | | | General Communication Error |
| Additional Sub Unit Status Sensor 9 | | | | | | | | | | |
| Additional Sub Unit Status. Contaminated Optic | 0x1038 | 4152 | 1 | R | Bool | | | | 0 | Contaminated Optics |
| Additional Sub Unit Status. Emitted Light Off | | | 2 | | | | | | | Emitted Light Off |
| Additional Sub Unit Status. Fatal Error | | | 3 | | | | | | | Fatal Error |
| Additional Sub Unit Status. Temperature Error | | | 4 | | | | | | | Temperature Error |
| Additional Sub Unit Status. Temperature High | | | 5 | | | | | | | Temperature High |
| Additional Sub Unit Status. Temperature Low | | | 6 | | | | | | | Temperature Low |
| Additional Sub Unit Status. Undervoltage | | | 7 | | | | | | | Undervoltage |
| Additional Sub Unit Status. Power Fault | | | 8 | | | | | | | Power Fault |
| Additional Sub Unit Status. Short Circuit | | | 9 | | | | | | | Short Circuit |
| Additional Sub Unit Status. Basic Communication Error | | | 10 | | | | | | | Basic Communication Error |
| Additional Sub Unit Status. General Communication Error | | | 11 | | | | | | | General Communication Error |

| Name | Index (hex) | Index (dec) | Sub-index | R/W | Datatype | Data Storage | Dynamic | Modify others | Default value | Range |
|---|-------------|-------------|-----------|-----|----------|--------------|---------|---------------|---------------|-----------------------------|
| Additional Sub Unit Status Sensor 10 | | | | | | | | | | |
| Additional Sub Unit Status. Contaminated Optic | 0x1039 | 4153 | 1 | R | Bool | | X | | 0 | Contaminated Optics |
| Additional Sub Unit Status. Emitted Light Off | | | 2 | | | | | | | Emitted Light Off |
| Additional Sub Unit Status. Fatal Error | | | 3 | | | | | | | Fatal Error |
| Additional Sub Unit Status. Temperature Error | | | 4 | | | | | | | Temperature Error |
| Additional Sub Unit Status. Temperature High | | | 5 | | | | | | | Temperature High |
| Additional Sub Unit Status. Temperature Low | | | 6 | | | | | | | Temperature Low |
| Additional Sub Unit Status. Undervoltage | | | 7 | | | | | | | Undervoltage |
| Additional Sub Unit Status. Power Fault | | | 8 | | | | | | | Power Fault |
| Additional Sub Unit Status. Short Circuit | | | 9 | | | | | | | Short Circuit |
| Additional Sub Unit Status. Basic Communication Error | | | 10 | | | | | | | Basic Communication Error |
| Additional Sub Unit Status. General Communication Error | | | 11 | | | | | | | General Communication Error |
| Additional Sub Unit Status Sensor 11 | | | | | | | | | | |
| Additional Sub Unit Status. Contaminated Optic | 0x103A | 4154 | 1 | R | Bool | | X | | 0 | Contaminated Optics |
| Additional Sub Unit Status. Emitted Light Off | | | 2 | | | | | | | Emitted Light Off |
| Additional Sub Unit Status. Fatal Error | | | 3 | | | | | | | Fatal Error |
| Additional Sub Unit Status. Temperature Error | | | 4 | | | | | | | Temperature Error |
| Additional Sub Unit Status. Temperature High | | | 5 | | | | | | | Temperature High |
| Additional Sub Unit Status. Temperature Low | | | 6 | | | | | | | Temperature Low |
| Additional Sub Unit Status. Undervoltage | | | 7 | | | | | | | Undervoltage |
| Additional Sub Unit Status. Power Fault | | | 8 | | | | | | | Power Fault |
| Additional Sub Unit Status. Short Circuit | | | 9 | | | | | | | Short Circuit |
| Additional Sub Unit Status. Basic Communication Error | | | 10 | | | | | | | Basic Communication Error |
| Additional Sub Unit Status. General Communication Error | | | 11 | | | | | | | General Communication Error |

| Name | Index (hex) | Index (dec) | Sub-index | R/W | Datatype | Data Storage | Dynamic | Modify others | Default value | Range |
|---|-------------|-------------|-----------|-----|----------|--------------|---------|---------------|---------------|-----------------------------|
| Additional Sub Unit Status Sensor 12 | | | | | | | | | | |
| Additional Sub Unit Status. Contaminated Optic | 0x103B | 4155 | 1 | R | Bool | | | | 0 | Contaminated Optics |
| Additional Sub Unit Status. Emitted Light Off | | | 2 | | | | | | | Emitted Light Off |
| Additional Sub Unit Status. Fatal Error | | | 3 | | | | | | | Fatal Error |
| Additional Sub Unit Status. Temperature Error | | | 4 | | | | | | | Temperature Error |
| Additional Sub Unit Status. Temperature High | | | 5 | | | | | | | Temperature High |
| Additional Sub Unit Status. Temperature Low | | | 6 | | | | | | | Temperature Low |
| Additional Sub Unit Status. Undervoltage | | | 7 | | | | | | | Undervoltage |
| Additional Sub Unit Status. Power Fault | | | 8 | | | | | | | Power Fault |
| Additional Sub Unit Status. Short Circuit | | | 9 | | | | | | | Short Circuit |
| Additional Sub Unit Status. Basic Communication Error | | | 10 | | | | | | | Basic Communication Error |
| Additional Sub Unit Status. General Communication Error | | | 11 | | | | | | | General Communication Error |
| Additional Sub Unit Status Sensor 13 | | | | | | | | | | |
| Additional Sub Unit Status. Contaminated Optic | 0x103C | 4156 | 1 | R | Bool | | | | 0 | Contaminated Optics |
| Additional Sub Unit Status. Emitted Light Off | | | 2 | | | | | | | Emitted Light Off |
| Additional Sub Unit Status. Fatal Error | | | 3 | | | | | | | Fatal Error |
| Additional Sub Unit Status. Temperature Error | | | 4 | | | | | | | Temperature Error |
| Additional Sub Unit Status. Temperature High | | | 5 | | | | | | | Temperature High |
| Additional Sub Unit Status. Temperature Low | | | 6 | | | | | | | Temperature Low |
| Additional Sub Unit Status. Undervoltage | | | 7 | | | | | | | Undervoltage |
| Additional Sub Unit Status. Power Fault | | | 8 | | | | | | | Power Fault |
| Additional Sub Unit Status. Short Circuit | | | 9 | | | | | | | Short Circuit |
| Additional Sub Unit Status. Basic Communication Error | | | 10 | | | | | | | Basic Communication Error |
| Additional Sub Unit Status. General Communication Error | | | 11 | | | | | | | General Communication Error |

| Name | Index (hex) | Index (dec) | Sub-index | R/W | Datatype | Data Storage | Dynamic | Modify others | Default value | Range |
|--|-------------|-------------|-----------|-----|----------|--------------|---------|---------------|---------------------------|--|
| Device Simulation | | | | | | | | | | |
| Simulation Mode | 0x0310 | 784 | 0 | R/W | Uint8 | | X | | 0 = off | 0 = off 1 = on |
| Device Simulation Enabled (Simulation Mode = 1) | | | | | | | | | | |
| Signal Value | 0x0315 | 789 | 0 | R/W | Uint16 | | X | | 65535 = Use Process Value | 0...9999 65535 = Use Process Value |
| Simulation SSC1 | 0x0331 | 817 | 0 | R/W | Uint8 | | X | | 255 = Use Process Value | 0 = Off 1 = On 255 = Use process Value |
| Simulation SSC2 | 0x0332 | 818 | 0 | R/W | Uint8 | | X | | 255 = Use Process Value | 0 = Off 1 = On 255 = Use process Value |
| Simulation Contaminated Optics | 0x031C | 796 | 0 | R/W | Uint8 | | X | | 255 = Use Process Value | 0 = Off 1 = On 255 = Use process Value |
| Simulation Fatal Error | 0x0323 | 803 | 0 | R/W | Uint8 | | X | | 255 = Use Process Value | 0 = Off 1 = On 255 = Use process Value |
| Simulation Temperature Error | 0x0324 | 804 | 0 | R/W | Uint8 | | X | | 255 = Use Process Value | 0 = Off 1 = On 255 = Use process Value |
| Simulation Temperature High | 0x0325 | 805 | 0 | R/W | Uint8 | | X | | 255 = Use Process Value | 0 = Off 1 = On 255 = Use process Value |
| Simulation Temperature Low | 0x032C | 812 | 0 | R/W | Uint8 | | X | | 255 = Use Process Value | 0 = Off 1 = On 255 = Use process Value |
| Simulation Undervoltage | 0x0327 | 807 | 0 | R/W | Uint8 | | X | | 255 = Use Process Value | 0 = Off 1 = On 255 = Use process Value |
| Simulation Power Fault | 0x0329 | 809 | 0 | R/W | Uint8 | | X | | 255 = Use Process Value | 0 = Off 1 = On 255 = Use process Value |
| Simulation Short Circuit | 0x0328 | 808 | 0 | R/W | Uint8 | | X | | 255 = Use Process Value | 0 = Off 1 = On 255 = Use process Value |
| Basic Communication Error | 0x0328 | 808 | 0 | R/W | Uint8 | | X | | 255 = Use Process Value | 0 = Off 1 = On 255 = Use process Value |
| General Communication Error | 0x0328 | 808 | 0 | R/W | Uint8 | | X | | 255 = Use Process Value | 0 = Off 1 = On 255 = Use process Value |

Events

Supported Events

| Name | Event Code | Type | Specification |
|--|------------|--------------|------------------|
| General malfunction – unknown error | 0x1000 | Error | IO-Link |
| Short circuit – Check installation | 0x7710 | Error | IO-Link |
| Device temperature over-run – Clear source of heat | 0x4210 | Warning | IO-Link |
| Device temperature under-run – Insulate device | 0x4220 | Warning | IO-Link |
| Temperature fault – Overload | 0x4000 | Error | IO-Link |
| Primary supply voltage under-run – Check tolerance | 0x5111 | Warning | IO-Link |
| Cleaning Required | 0x8C40 | Warning | IO-Link |
| Emitter light changed (on/off) | 0x1811 | Notification | wenglor specific |
| Watchdog reset occurred | 0x1812 | Notification | wenglor specific |
| Basic Communication Error | 0x1813 | Error | wenglor specific |
| General Communication Error | 0x1815 | Error | wenglor specific |