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Please note the validity of the additional operating instructions for automation functions

## 1. Physical layer

Note: The IO-Link Device's max. current consumption (inclusive load current) shall not exceed the master port's max. output power current.

SIO Modus	yes
Min Cycle Time	4.0 ms
Baudrate <sup>2</sup>	COM3
Process Data Length (IN)	4 Byte
IODD version	V244919.859113
Valid for IO-Link version	1.1

## 2. Process data

Record: 4 Byte

Bitoffset																	
Byte 0	MDC - Measurement Value	31															24
Type/Subindex	Integer 16																
Bitoffset																	
Byte 1	MDC - Measurement Value	23															16
Type/Subindex	Integer 16																
Bitoffset																	
Byte 2	MDC - Scale	15															8
Type/Subindex	Integer 8																
Bitoffset																	
Byte 3		7															0
Type/Subindex	SSC - Switching Signal																
	Boolean																

## 3. Service data

Every ISDU will be saved via Data-Storage.

IO-Link specific							
Index dec (hex)	Name	Format (Offset)	Length	Access <sup>1</sup>	Default Value	Value / Range	Remark [Unit]
0 (0x00)	Direct Parameters - Page 1	Record	16 Byte	rw			Comprises the required parameters defining the communication characteristics and identifiers for device validation.
1 (0x01)	Reserved	UInt (120)	8 Bit	ro			
2 (0x02)	Master Cycle Time	UInt (112)	8 Bit	ro			Communication: Current communication cycle duration used by the master. This value defines the process data cycle.
3 (0x03)	Min Cycle Time	UInt (104)	8 Bit	ro			Communication: Minimum communication cycle duration supported by the device. This value defines the lowest possible process data cycle.
4 (0x04)	M-Sequence Capability	UInt (96)	8 Bit	ro			Communication: Information on the structure and the supported features of the communication messages.
5 (0x05)	IO-Link Revision ID	UInt (88)	8 Bit	ro	17		Communication: Identifier for the currently used communication protocol revision.
6 (0x06)	Process Data Input Length	UInt (80)	8 Bit	ro			Communication: Information on width and features of the process input data (Process Data from Device to Master).
7 (0x07)	Process Data Output Length	UInt (72)	8 Bit	ro			Communication: Information on width of the process output data (Process Data from Master to Device).
8 (0x08)	Vendor ID 1	UInt (64)	8 Bit	ro			Identification: Highest octet of the Vendor ID. Combined with the parameter Vendor ID 2, this parameter defines the 16-bit value of the unique Vendor ID as assigned by the IO-Link Community.
9 (0x09)	Vendor ID 2	UInt (56)	8 Bit	ro			Identification: Lowest octet of the Vendor ID. Combined with the parameter Vendor ID 1, this parameter defines the 16-bit value of the unique Vendor ID as assigned by the IO-Link Community.
10 (0x0A)	Device ID 1	UInt (48)	8 Bit	ro			Identification: Highest octet of the Device ID. Combined with the parameters Device ID 2 and 3, this parameter defines the 24-bit value of the vendor-specific Device ID.

<sup>1</sup> ro = read only, wo = write only, rw = read/write

<sup>2</sup> COM values specify the bitrate (see IO-Link specification): COM1 (4,8 kbit/s), COM2 (38,4 kbit/s), COM3 (230,4 kbit/s)

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Please note the validity of the additional operating instructions for automation functions

**ENGLISH**

IO-Link specific							
Index dec (hex)	Name	Format (Offset)	Length	Access <sup>1</sup>	Default Value	Value / Range	Remark [Unit]
11 (0x0B)	Device ID 2	UInt (40)	8 Bit	ro			Identification: Middle octet of the Device ID. Combined with the parameters Device ID 1 and 3, this parameter defines the 24-bit value of the vendor-specific Device ID.
12 (0x0C)	Device ID 3	UInt (32)	8 Bit	ro			Identification: Lowest octet of the Device ID. Combined with the parameters Device ID 1 and 2, this parameter defines the 24-bit value of the vendor-specific Device ID.
13 (0x0D)	Reserved	UInt (24)	8 Bit	ro			
14 (0x0E)	Reserved	UInt (16)	8 Bit	ro			
15 (0x0F)	Reserved	UInt (8)	8 Bit	ro			
16 (0x10)	System Command	UInt (0)	8 Bit	rw		0..63 = Reserved 128 = Device Reset 129 = Application Reset 130 = Restore Factory Settings 131 = Back-to-box 132...159 = Reserved	Application: Command interface for devices without ISDU support. Validity and execution of commands are not confirmed.
16 (0x10)	Vendor Name	String	64 Byte	ro	SICK AG		The vendor name that is assigned to a Vendor ID.
17 (0x11)	Vendor Text	String	64 Byte	ro	<a href="http://www.sick.com">www.sick.com</a>		Additional information about the vendor.
18 (0x12)	Product Name	String	64 Byte	ro			Complete product name.
19 (0x13)	Product ID	String	64 Byte	ro			Vendor-specific product or type identification (e.g., item number or model number).
20 (0x14)	Product Text	String	64 Byte	ro	Ultrasonic Web Edge Fork Sensor		Additional product information for the device.
21 (0x15)	Serial Number	String	16 Byte	ro	00000000h		Unique, vendor-specific identifier of the individual device.
22 (0x16)	Hardware Revision	String	64 Byte	ro	00000000h		Unique, vendor-specific identifier of the hardware revision of the individual device.
23 (0x17)	Firmware Revision	String	64 Byte	ro	02.00.0000h		Unique, vendor-specific identifier of the firmware revision of the individual device.
24 (0x18)	Application-specific Tag	String	32 Byte	rw	***		Possibility to mark a device with user- or application-specific information.
32 (0x20)	Error Count	UInt	16 Bit	ro			Number of errors that occurred in the technology-specific application since power on or restart.
36 (0x24)	Device Status	UInt	8 Bit	ro	0	0 = Device is OK 1 = Maintenance required 2 = Out of specification 3 = Functional check 4 = Failure	Indicator for the current device condition and diagnosis state.
37 (0x25)	Detailed Device Status	Array	30 Byte	ro		Octet String [10]	List of all currently pending events in the device.
40 (0x28)	PD Input	PD In	4 Byte	ro			Last valid process input data of the device.
SICK device specific							
Index dec (hex)	Name	Format (Offset)	Length	Access <sup>1</sup>	Default Value	Value / Range	Remark [Unit]
25 (0x19)	Function Tag	String	32 Byte	rw	***		Possibility to mark a device with function-specific information.
26 (0x1A)	Location Tag	String	32 Byte	rw	***		Possibility to mark a device with location-specific information.
60 (0x3C)	SSC1 parameter	Record	8 Byte	rw			
1 (0x01)	SP1	Int (32)	32 Bit	rw	1535	0...4095	Setpoint 1 for switching output
2 (0x02)	SP2	Int (0)	32 Bit	rw	2559	0...4095	Setpoint 2 for switching output
61 (0x3D)	SSC1 configuration	Record	6 Byte	rw			
1 (0x01)	Logic	UInt (40)	8 Bit	rw	0	0 = High active 1 = Low active	Logic state for target detected
2 (0x02)	Mode	UInt (32)	8 Bit	rw	2	0 = Deactivated 1 = Single point (SP1: switching point) 2 = Window (SP1, SP2: window mode) 3 = Two point (SP1, SP2: hysteresis mode)	Operating mode of the switching signal channel: switching point, window mode, hysteresis mode, switching point + offset, two way reflective barrier
3 (0x03)	Hysteresis	Int (0)	32 Bit	rw	50	0...4095	Hysteresis for SP1 and SP2
100 (0x64)	SSC1 advanced configuration	Record	2 Byte	rw			
1 (0x01)	Switch-on delay	UInt (8)	8 Bit	rw	0	0...255	Switch-on delay in seconds [s]
2 (0x02)	Switch-off delay	UInt (0)	8 Bit	rw	0	0...255	Switch-off delay in seconds [s]

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<sup>2</sup>COM values specify the bitrate (see IO-Link specification): COM1 (4,8 kbit/s), COM2 (38,4 kbit/s), COM3 (230,4 kbit/s)

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## UFW3

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### ENGLISH

SICK device specific							
Index dec (hex)	Name	Format (Offset)	Length	Access <sup>1</sup>	Default Value	Value / Range	Remark (Unit)
160 (0xA0)	ASC1 parameter		8 Byte	rw			
	1 (0x01) SP1	Int (32)	32 Bit	rw	0	0...4095	Sensor-close or sensor-distant window limit (recommended sensor-close window limit)
2 (0x02)	SP2	Int (0)	32 Bit	rw	4095	0...4095	Sensor-distant or sensor-close window limit (recommended sensor-distant window limit)
	161 (0xA1)	ASC1 configuration	Record	2 Byte	rw		
1 (0x01)	Output characteristic	UInt (8)	8 Bit	rw	0	0 = Rising 1 = Falling	Rising or falling analogue characteristic
	2 (0x02)	Operating mode	UInt (0)	8 Bit	rw	2	1 = current output 2 = voltage output
210 (0xD2)	Evaluation	Record	2 Byte	rw			
	1 (0x01) Temperature compensation	UInt (8)	8 Bit	rw	1	0 = Inactive 1 = Active	
2 (0x02)	Linearisation	UInt (0)	8 Bit	rw	1	0 = Inactive 1 = Active	
	211 (0xD3)	Adjustment	Record	1 Byte	ro		
1 (0x01)	Adjustment state	UInt (0)	8 Bit	ro	0	0 = idle 1 = run 2 = error 3 = successful	
	256 (0x100)	Filter	Record	2 Byte	rw		
1 (0x01)	Type	UInt (8)	8 Bit	rw	0	0 = F00: no filter 1 = F01: averaging filter 2 = F02: median filter	Measurement filter for the evaluation of the measured values
	2 (0x02)	Strength	UInt (0)	8 Bit	rw	0	0 = P00: weak filter 1 = P01 2 = P02 3 = P03 4 = P04 5 = P05 6 = P06 7 = P07 8 = P08 9 = P09: strong filter
350 (0x15E)	Synchronisation and multiplex operation	Record	3 Byte	rw			
	1 (0x01) Mode	UInt (16)	8 Bit	rw	1	0 = Inactive 1 = Active	
2 (0x02)	Sensor operation	UInt (8)	8 Bit	rw	0	0 = Synchronisation active 1 = Multiplex address 1 2 = Multiplex address 2 3 = Multiplex address 3 4 = Multiplex address 4 5 = Multiplex address 5 6 = Multiplex address 6 7 = Multiplex address 7 8 = Multiplex address 8 9 = Multiplex address 9 10 = Multiplex address 10	
	3 (0x03)	Multiplex number of participants	UInt (0)	8 Bit	rw	10	2 = 2 participants 3 = 3 participants 4 = 4 participants 5 = 5 participants 6 = 6 participants 7 = 7 participants 8 = 8 participants 9 = 9 participants 10 = 10 participants
370 (0x172)	Control	Record	1 Byte	rw			
	1 (0x01) Mode	UInt (0)	8 Bit	rw	3	0 = Teach-in buttons and teach-in via pin 5 inactive 1 = Teach-in buttons inactive and teach-in via pin 5 active 2 = Teach-in buttons active and teach-in via pin 5 inactive 3 = Teach-in buttons and teach-in via pin 5 active	
371 (0x173)	LED	Record	1 Byte	rw			
	1 (0x01) Mode	UInt (0)	8 Bit	rw	1	0 = inactive, active for teach-in 1 = active	
2000 (0x7D0)	Temperature	Record	2 Byte	ro			
	1 (0x01) Sensor temperature	Int (0)	16 Bit	ro	0	-400...1050	[°C]
2001 (0x7D1)	Cycletimes	Record	4 Byte	ro			
	1 (0x01) SIO-Mode Cycletime	Int (16)	16 Bit	ro	0		[ms]

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<sup>2</sup> COM values specify the bitrate (see IO-Link specification): COM1 (4,8 kbit/s), COM2 (38,4 kbit/s), COM3 (230,4 kbit/s)

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Más representantes y agencias en [www.sick.com](http://www.sick.com) - Sujeto a cambio sin previo aviso - Las características y los datos técnicos especificados no constituyen ninguna declaración de garantía.

欲了解更多代表机构和代理商信息, 请登录 [www.sick.com](http://www.sick.com) 如有更改, 不另行通知 对所给出的产品特性和技术参数 的正确性不予保证。



Please note the validity of the additional operating instructions for automation functions

### ENGLISH

SICK device specific							
Index dec (hex)	Name	Format (Offset)	Length	Access <sup>1</sup>	Default Value	Value / Range	Remark [Unit]
2 (0x02)	IO-Link Cycletime	Int (0)	16 Bit	ro	0		[ms]
16512 (0x4080)	Measurement data channel description	Record	11 Byte	ro			
1 (0x01)	Lower limit	Int (56)	32 Bit	ro	0		Lower limit of the measuring range
2 (0x02)	Upper limit	Int (24)	32 Bit	ro	4095		Upper limit of the measuring range
3 (0x03)	Unit code	UInt (8)	16 Bit	ro	1997		Shows the unique code for the physical unit.
4 (0x04)	Scale	Int (0)	8 Bit	ro	0		Shows the multiplier for measurement value - 10exp(scale).

Standard command					
Index dec (hex)		Access <sup>1</sup>	Value	Name	Remark [Unit]
2 (0x02)	System Command	wo	126	Locator Start	
			127	Locator Stop	
			128	Device Reset	
			129	Application Reset	
			130	Restore Factory Settings	
			131	Back-to-box	
			160	Start Range-Free Adjustment	
			161	Start Range-Full Adjustment	
			162	Start Range-Half Adjustment	

Events			
Code dec (hex)	Name	Type	Remark [Unit]
16384 (0x4000)	Temperature fault	Error	Overload
16912 (0x4210)	Device temperature overrun	Warning	Clear source of heat
16928 (0x4220)	Device temperature underrun	Warning	Insulate device
36000 (0x8CA0)	Manual Teach-in not successful	Notification	Manual Teach-in process was not successful.
36001 (0x8CA1)	Manual Teach-in successful	Notification	Manual Teach-in process was successful.
36003 (0x8CA3)	Manual Teach-in is executed	Warning	The sensor can not be used because of a running button or pin 5 teach-in.

<sup>1</sup> ro = read only, wo = write only, rw = read/write  
<sup>2</sup> COM values specify the bitrate (see IO-Link specification): COM1 (4,8 kbit/s), COM2 (38,4 kbit/s), COM3 (230,4 kbit/s)