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9382056 1L6P
WTM4S_DID8389402
8389402
2529653505
9382031 1L6P (1.1.0)

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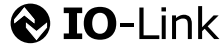
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Please note the validity of the additional operating instructions for automation functions

1. Device features

Data Storage class 2:

The configured Device supports Data Storage in such a manner that the replacement Device requires user manipulation such as teach-in prior to operation with the same performance.

Supported Smart Sensor Profile Function Classes	Binary Data Channel, Teach Channel
Supported IO-Link Time Stamp Profile modes	none (IO-Link Time Stamp Profile not supported)
Block Parameter Transmission	supported
Data Storage functionality	supported
Access Locks (supported / modes)	Local User Interface

2. 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	2.3 ms
Baudrate ²	COM2
Process Data Length (IN)	2 Byte
IODD version	V1.42249
Valid for IO-Link version	1.1

3. Process data

Record³: 2 Byte

Condition: ISDU: Process data select, Index: 120, Subindex: 0, Value: 0

Bitoffset	15	14	13	12	11	10	9	8
Byte 0	Current receive level (live)							
Type/Subindex	Unsigned Integer 14							

Bitoffset	7	6	5	4	3	2	1	0
Byte 1	Current receive level (live)							
Type/Subindex	Unsigned Integer 14							
	3	Boolean	2	Boolean	1	QL1	1	QL2

Unsigned Integer 16: 2 Byte

Condition: ISDU: Process data select, Index: 120, Subindex: 0, Value: 1

Bitoffset	15	14	13	12	11	10	9	8
Byte 0	Distance to object [1/10mm]							
Type/Subindex	Unsigned Integer 16							

Bitoffset	7	6	5	4	3	2	1	0
Byte 1								
Type/Subindex								

4. Service data

The following ISDUs will not be saved via Data-Storage: Teach-in channel, Teach-in state, Qint.1 configuration, Qint.2 configuration, Device specific tag, Sender configuration, Quality of teach, Temperature zone, Current receiver level (live), Find me, Distance to object and SLTI Version

IO-Link specific							
Index dec (hex)	Name	Format (Offset)	Length	Access ¹	Default Value	Value / Range	Remark [Unit]
12 (0x0C)	Device Access Locks	Record ³	2 Byte	rw			The access to the device parameters can be restricted by setting appropriate flags within this parameter.
4 (0x04)	Local User Interface	Bool (3)	1 Bit	rw	0	0 = unlocked 1 = locked	
16 (0x10)	Vendor Name	String	7 Byte	ro	SICK AG		The vendor name that is assigned to a Vendor ID.
17 (0x11)	Vendor Text	String	64 Byte	ro			Additional information about the vendor.
18 (0x12)	Product Name	String	18 Byte	ro			Complete product name.
19 (0x13)	Product ID	String	16 Byte	ro			Vendor-specific product or type identification (e.g., item number or model number).
20 (0x14)	Product Text	String	45 Byte	ro			Additional product information for the device.
21 (0x15)	Serial Number	String	8 Byte	ro			Unique, vendor-specific identifier of the individual device.
22 (0x16)	Hardware Revision	String	4 Byte	ro			Unique, vendor-specific identifier of the hardware revision of the individual device.
23 (0x17)	Firmware Revision	String	16 Byte	ro			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.

¹ ro = read only, wo = write only, rw = read/write

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

³Subindex access not supported

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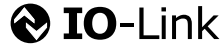
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IO-Link specific							
Index dec (hex)	Name	Format (Offset)	Length	Access ¹	Default Value	Value / Range	Remark (Unit)
36 (0x24)	Device Status	UInt	8 Bit	ro		0 = Device is OK 1 = Maintenance required 2 = Out of specification 3 = Functional check 4 = Failure	Indicator for the current device condition and diagnosis state.
37 (0x25)	Detailed Device Status	Array ³	6 Byte	ro		Octet String [2]	List of all currently pending events in the device.
37 (0x25)	Detailed Device Status	Array ³	6 Byte	ro		Octet String [2]	List of all currently pending events in the device.
40 (0x28)	PD Input	PD In	2 Byte	ro			Last valid process input data of the device.
SICK device specific							
Index dec (hex)	Name	Format (Offset)	Length	Access ¹	Default Value	Value / Range	Remark (Unit)
25 (0x19)	Function Tag	String	32 Byte	rw	***		
26 (0x1A)	Location Tag	String	32 Byte	rw	***		
58 (0x3A)	Teach-in channel	UInt	8 Bit	rw	0	0 = default Quint. = Quint.1 1 = Quint.1 2 = Quint.2	
59 (0x3B)	Teach-in state	Record ³	1 Byte	ro			
1 (0x01)	Teach flag SP1 TP2	Bool (5)	1 Bit	ro		false = SP1 TP2 not taught or not successful true = SP1 TP2 successfully taught	
2 (0x02)	Teach flag SP1 TP1	Bool (4)	1 Bit	ro		false = SP1 TP1 not taught or not successful true = SP1 TP1 successfully taught	
3 (0x03)	Teach state	UInt (0)	4 Bit	ro		0 = IDLE 1 = SP1 SUCCESS 4 = WAIT FOR COMMAND 5 = BUSY 7 = ERROR	
60 (0x3C)	Qint.1 SP1 / SP2	Record	3 Byte	rw			
1 (0x01)	SP1 sensing range	UInt (8)	16 Bit	rw	9	9...570	[mm]
2 (0x02)	SP2 sensing range	UInt (0)	8 Bit	rw	0	0 = SP2 not used	
61 (0x3D)	Qint.1 configuration	Record	4 Byte	rw			
1 (0x01)	Switchpoint logic	UInt (24)	8 Bit	rw	128	128 = Vendor specific	
2 (0x02)	Switchpoint mode	UInt (16)	8 Bit	rw	128	128 = Vendor specific	
3 (0x03)	Switchpoint hysteresis	UInt (0)	16 Bit	rw	0	0 = Autodefined hysteresis	
62 (0x3E)	Qint.2 SP1 / SP2	Record	3 Byte	rw			
1 (0x01)	SP1 sensing range	UInt (8)	16 Bit	rw	9	9...570	[mm]
2 (0x02)	SP2 sensing range	UInt (0)	8 Bit	rw	0	0 = SP2 not used	
63 (0x3F)	Qint.2 configuration	Record	4 Byte	rw			
1 (0x01)	Switchpoint logic	UInt (24)	8 Bit	rw	128	128 = Vendor specific	
2 (0x02)	Switchpoint mode	UInt (16)	8 Bit	rw	128	128 = Vendor specific	
3 (0x03)	Switchpoint hysteresis	UInt (0)	16 Bit	rw	0	0 = Autodefined hysteresis	
64 (0x40)	Device specific tag	String	32 Byte	rw	***		
83 (0x53)	Operation mode	UInt	8 Bit	rw	0	0 = BGS Quint.1, 1 point teach, AS 1 1 = BGS Quint.1, 1 point teach, AS 2 2 = BGS Quint.1, 2 point teach, AS 1 4 = BGS Quint.1 and Quint.2, 1 point teach, AS 1 6 = FGS Quint.1, 1 point teach, AS 1 16 = Distance measurement	BGS = Background suppression FGS = Foreground suppression AS = ApplicationSelect mode Mode "Distance measurement" activates Process Data variant 2: "Distance to object"
90 (0x5A)	Teach-in offset	Int	8 Bit	rw	0	-100...100	[mm]
92 (0x5C)	Physical input / output type configuration pin2	UInt	8 Bit	rw	3	1 = PNP 2 = NPN 3 = Push/Pull	
97 (0x61)	Sender configuration	UInt	8 Bit	rw	0	0 = Sender active 1 = Sender not active	
114 (0x72)	Quality of teach	Record	2 Byte	ro			
1 (0x01)	Quality of teach Quint.1 SP1	UInt (8)	8 Bit	ro		0...100	[%]
2 (0x02)	Quality of teach Quint.2 SP1	UInt (0)	8 Bit	ro		0...100	[%]
120 (0x78)	Process data select	UInt	8 Bit	ro	0	0 = Switching signals 1 = Distance to object	Interdependency with index 83dec.

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³ Subindex access not supported

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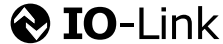
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121 (0x79)	Pin 2 configuration	UInt	8 Bit	rw	40	0 = Deactivated / no function 1 = External input (Smart Task) 16 = Sender off 17 = Teach-in 34 = Switching signal QL2 35 = Detection output QInt.1 36 = Detection output QInt.2 39 = Switching signal QL1 40 = Switching signal QL1/	
154 (0x9A)	Temperature zone	UInt	8 Bit	ro		0 = Very cold 1 = Cold 2 = Moderate 3 = Warm 4 = Hot	Sensor-internal temperature
179 (0xB3)	Alarm thresholds for diagnostic parameters	Record	4 Byte	rw			
1 (0x01)	Operating hours threshold	UInt (0)	32 Bit	rw	40000	0...1000000	[h]
180 (0xB4)	Current receiver level (live)	UInt	16 Bit	ro		0...16383	
190 (0xBE)	Operating hours	Record	8 Byte	ro			
1 (0x01)	Total operating hours	UInt (32)	32 Bit	ro		0...1000000	[h]
2 (0x02)	Operating hours since last reset	UInt (0)	32 Bit	ro		0...1000000	[h]
204 (0xCC)	Find me	UInt	8 Bit	rw	0	0 = Find me deactivated 1 = Find me activated	
226 (0xE2)	System state	Record ³	2 Byte	ro			
1 (0x01)	Detection output QInt.1	Bool (0)	1 Bit	ro		false = No object detected true = Object detected	
2 (0x02)	Detection output QInt.2	Bool (1)	1 Bit	ro		false = No object detected true = Object detected	
6 (0x06)	Input signal state Pin 2	Bool (7)	1 Bit	ro		false = External input FALSE true = External input TRUE	
227 (0xE3)	Notification handling	UInt	8 Bit	rw	0	0 = All enabled 1 = All disabled 2 = Events enabled, PD invalid flag disabled 3 = Events disabled, PD invalid flag enabled	
229 (0xE5)	Distance to object	Record ³	3 Byte	ro			
1 (0x01)	Distance	UInt (8)	16 Bit	ro		0...30000	[1/10mm] [mm]
2 (0x02)	Distance qualifier	UInt (0)	8 Bit	ro		0 = Distance in range / valid 3 = No distance information / distance invalid	[mm]
1080 (0x438)	SLTI Version	String	8 Byte	ro			
1081 (0x439)	Input selector 1	UInt	8 Bit	rw	0	0 = QInt.1 1 = QInt.2 64 = Ext.input1	
1082 (0x43A)	Input selector 2	UInt	8 Bit	rw	64	0 = QInt.1 1 = QInt.2 64 = Ext.input1	
1083 (0x43B)	Logic 1	UInt	8 Bit	rw	0	0 = DIRECT 1 = AND 2 = OR 3 = Window Mode 4 = Hysteresis	
1084 (0x43C)	Logic 2	UInt	8 Bit	rw	0	0 = DIRECT 1 = AND 2 = OR 3 = Window Mode 4 = Hysteresis	
1085 (0x43D)	Timer 1 Mode	UInt	8 Bit	rw	0	0 = deactivated 1 = T-on delay 2 = T-off delay 3 = T-on/T-off delay 4 = Impulse (one shot)	
1086 (0x43E)	Timer 2 Mode	UInt	8 Bit	rw	0	0 = deactivated 1 = T-on delay 2 = T-off delay 3 = T-on/T-off delay 4 = Impulse (one shot)	
1087 (0x43F)	Time 1 Setup	UInt	16 Bit	rw	1	1...30000	[ms]
1088 (0x440)	Time 2 Setup	UInt	16 Bit	rw	1	1...30000	[ms]
1089 (0x441)	Inverter 1	UInt	8 Bit	rw	0	0 = not inverted 1 = inverted	

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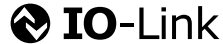
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1090 (0x442)	Inverter 2	UInt	8 Bit	rw	0	0 = not inverted 1 = inverted	
1093 (0x445)	Inverter Ext. Input	UInt	8 Bit	rw	0	0 = not inverted 1 = inverted	

Standard command							
Index dec (hex)	Name	Access ¹	Value	Name	Value	Remark [Unit]	
2 (0x02)	System Command	wo	65	Single value teach			
			67	Teach SP1 TP1			
			68	Teach SP1 TP2			
			79	Abort Teach-in sequence			
			129	Application Reset			
			130	Restore Factory Settings			
			131	Back-to-box			
228	Reset diagnostics parameter						

Events			
Code dec (hex)	Name	Type	Remark [Unit]
30480 (0x7710)	Short circuit	Error	Shortcut on outputs
36001 (0x8CA1)	New parameters	Notification	Parameters have been changed
36005 (0x8CA5)	Teach / value out of specified range	Notification	Teach / distance value out of specified range
36011 (0x8CAB)	Alarm operating hours	Warning	Threshold for operating hours violated

Error			
Code dec (hex)	Additional Code	Name	Remark [Unit]
128 (0x80)	17 (0x11)	Index not available	Read or write access attempt to a non-existing index.
128 (0x80)	18 (0x12)	Subindex not available	Read or write access attempt to a non-existing subindex of an existing index.
128 (0x80)	32 (0x20)	Service temporarily not available	Parameter not accessible due to the current state of the technology-specific application.
128 (0x80)	35 (0x23)	Access denied	Write access to a read-only parameter or read access to write-only parameter.
128 (0x80)	48 (0x30)	Parameter value out of range	Written parameter value is outside of the permitted value range.
128 (0x80)	51 (0x33)	Parameter length overrun	Written parameter is longer than specified.
128 (0x80)	52 (0x34)	Parameter length underrun	Written parameter is shorter than specified.
128 (0x80)	64 (0x40)	Invalid parameter set	Written single parameter value collides with other existing parameter settings.
128 (0x80)	65 (0x41)	Inconsistent parameter set	Parameter set inconsistencies at the end of block parameter transfer. Device plausibility check failed.

¹ro = read only, wo = write only, rw = read/write
²COM values specify the bitrate (see IO-Link specification): COM1 (4,8 kbit/s), COM2 (38,4 kbit/s), COM3 (230,4 kbit/s)
³Subindex access not supported