



8029059 0224
9388517 0224

W10_SR_A00_DID8389421

8389421

3355756022

9388514 0224 (1.1.0)

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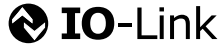
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Please note the validity of the additional operating instructions for automation functions

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 Parameterization, 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	3.4 ms
Baudrate ²	COM2
Process Data Length (IN)	4 Byte
IODD version	V1.44356
Valid for IO-Link version	1.1

3. Process data

Record¹: 4 Byte

Condition: ISDU: Process data select, Index: 120, Subindex: 0, Value: 18

Bitoffset																
Byte 0	Distance to Object in [mm]															
Type/Subindex	Unsigned Integer 16															

Bitoffset																
Byte 1	Distance to Object in [mm]															
Type/Subindex	Unsigned Integer 16															

Bitoffset																
Byte 2																
Type/Subindex																

Bitoffset																
Byte 3	Sensor operation status		Qint.4		Qint.3		Qint.2		Qint.1		QL2		QL1			
Type/Subindex	Boolean		Boolean		Boolean		Boolean		Boolean		Boolean		Boolean			

Record⁴: 4 Byte

Condition: ISDU: Process data select, Index: 120, Subindex: 0, Value: 33

Bitoffset																
Byte 0	Offset Distance from BDC1/SP1 to object [mm]															
Type/Subindex	Integer 16															

Bitoffset																
Byte 1	Offset Distance from BDC1/SP1 to object [mm]															
Type/Subindex	Integer 16															

Bitoffset																
Byte 2	Reference Distance of BDC1/SP1 [mm]															
Type/Subindex	Unsigned Integer 16															

Bitoffset																
Byte 3	Reference Distance of BDC1/SP1 [mm]															
Type/Subindex	Unsigned Integer 16															

Record³: 4 Byte

Condition: ISDU: Process data select, Index: 120, Subindex: 0, Value: 34

Bitoffset																
Byte 0	Offset Distance from BDC2/SP1 to object [mm]															
Type/Subindex	Integer 16															

Bitoffset																
Byte 1	Offset Distance from BDC2/SP1 to object [mm]															
Type/Subindex	Integer 16															

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



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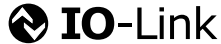
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IO-Link specific							
Index dec (hex)	Name	Format (Offset)	Length	Access ¹	Default Value	Value / Range	Remark (Unit)
23 (0x17)	Firmware Revision	String	16 Byte	ro			Unique, vendor-specific identifier of the firmware revision of the individual device.
24 (0x18)	Application-specific Tag	String	32 Byte	rw	***		Possibility to mark a device with user- or application-specific information.
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	9 Byte	ro		Octet String [3]	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.
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 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 = Qint1 1 = Qint1 2 = Qint2 3 = Qint3 4 = Qint4	
59 (0x3B)	Teach-in state	Record ³	1 Byte	ro			
1 (0x01)	Teach flags SP2 TP2	Bool (7)	1 Bit	ro		false = Teachpoint 2 not taught true = Teachpoint 2 successfully taught	
2 (0x02)	Teach flags SP2 TP1	Bool (6)	1 Bit	ro		false = Teachpoint 1 not taught true = Teachpoint 1 successfully taught	
3 (0x03)	Teach flags SP1 TP2	Bool (5)	1 Bit	ro		false = Teachpoint 2 not taught true = Teachpoint 2 successfully taught	
4 (0x04)	Teach flags SP1 TP1	Bool (4)	1 Bit	ro		false = Teachpoint 1 not taught true = Teachpoint 1 successfully taught	
5 (0x05)	Teach state	UInt (0)	4 Bit	ro		0 = IDLE 1 = SP1 SUCCESS 2 = SP2 SUCCESS 3 = SP12 SUCCESS 4 = WAIT FOR COMMAND 5 = BUSY 7 = ERROR	
60 (0x3C)	Qint.1 SP1 / SP2	Record	8 Byte	rw			
1 (0x01)	Qint.1 SP1 sensing range	Float (32)	4 Byte	rw	200.0	15.0...440.0	[mm]
2 (0x02)	Qint.1 SP2 sensing range	Float (0)	4 Byte	rw	200.0	15.0...440.0	[mm]
61 (0x3D)	Qint.1 configuration	Record	4 Byte	rw			
1 (0x01)	Qint.1 Switchpoint logic	UInt (24)	8 Bit	rw	0	0 = Value as specified 1 = Inverted value	
2 (0x02)	Qint.1 Switchpoint mode	UInt (16)	8 Bit	rw	1	0 = Deactivated 1 = Single point mode 2 = Window mode 3 = Two point mode 128 = Foreground suppression	
3 (0x03)	Qint.1 Switchpoint hysteresis	UInt (0)	16 Bit	rw	0	0 = Auto-defined hysteresis	
62 (0x3E)	Qint.2 SP1 / SP2	Record	8 Byte	rw			
1 (0x01)	Qint.2 SP1 sensing range	Float (32)	4 Byte	rw	200.0	15.0...440.0	[mm]
2 (0x02)	Qint.2 SP2 sensing range	Float (0)	4 Byte	rw	200.0	15.0...440.0	[mm]
63 (0x3F)	Qint.2 configuration	Record	4 Byte	rw			
1 (0x01)	Qint.2 Switchpoint logic	UInt (24)	8 Bit	rw	0	0 = Value as specified 1 = Inverted value	
2 (0x02)	Qint.2 Switchpoint mode	UInt (16)	8 Bit	rw	1	0 = Deactivated 1 = Single point mode 2 = Window mode 3 = Two point mode 128 = Foreground suppression	
3 (0x03)	Qint.2 Switchpoint hysteresis	UInt (0)	16 Bit	rw	0	0 = Auto-defined hysteresis	
64 (0x40)	Device specific tag	String	32 Byte	rw	***		

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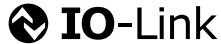
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SICK device specific							
Index dec (hex)	Name	Format (Offset)	Length	Access ¹	Default Value	Value / Range	Remark (Unit)
83 (0x53)	Detection mode	UInt	8 Bit	rw	1	0 = Speed 1 = Standard 2 = Precision	
90 (0x5A)	Teach-in offset	Float	4 Byte	rw	0.0	-100.0...100.0	[mm]
91 (0x5B)	Physical output type configuration pin4	UInt	8 Bit	rw	3	1 = PNP 2 = NPN 3 = Push/Pull	
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	
120 (0x78)	Process data select	UInt	8 Bit	rw	18	18 = Distance to object and switching signals 33 = Distance to object as offset referenced to BDC1/SP1 34 = Distance to object as offset referenced to BDC2/SP1 35 = Distance to object as offset referenced to BDC3/SP1 36 = Distance to object as offset referenced to BDC4/SP1	Interdependency with index 83dec.
121 (0x79)	Pin 2 configuration	UInt	8 Bit	rw	34	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 37 = Detection output Qint.3 38 = Detection output Qint.4 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]
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	
219 (0xDB)	Full Product ID	Record	39 Byte	ro			FullProductIDen
1 (0x01)	Full Product ID	Str (256)	7 Byte	ro			
2 (0x02)	Full Product Name	Str (0)	32 Byte	ro			
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	
3 (0x03)	Detection output Qint.3	Bool (2)	1 Bit	ro		false = No object detected true = Object detected	
4 (0x04)	Detection output Qint.4	Bool (3)	1 Bit	ro		false = No object detected true = Object detected	
5 (0x05)	Input signal state Pin 2	Bool (7)	1 Bit	ro		false = External input FALSE true = External input TRUE	
6 (0x06)	Smart task output QL1	Bool (9)	1 Bit	ro		false = FALSE true = TRUE	
7 (0x07)	Smart task output QL2	Bool (10)	1 Bit	ro		false = FALSE true = 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	5 Byte	ro			
1 (0x01)	Distance	Float (8)	4 Byte	ro		0.0...65535.0	[mm] [mm]

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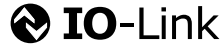
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2 (0x02)	Distance qualifier	UInt (0)	8 Bit	ro		0 = Distance in range / valid 1 = Distance over run 2 = Distance under run 3 = No distance information / distance invalid	[mm]
1080 (0x438)	SLTI Version	String	8 Byte	ro			
1081 (0x439)	Input selector 1	UInt	8 Bit	rw	0	0 = Qint.1 1 = Qint.2 2 = Qint.3 3 = Qint.4 64 = Ext.input1	
1082 (0x43A)	Input selector 2	UInt	8 Bit	rw	0	0 = Qint.1 1 = Qint.2 2 = Qint.3 3 = Qint.4 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	
1090 (0x442)	Inverter 2	UInt	8 Bit	rw	1	0 = not inverted 1 = inverted	
1093 (0x445)	Inverter Ext. Input	UInt	8 Bit	rw	0	0 = not inverted 1 = inverted	
16384 (0x4000)	Qint.3 SP1 / SP2	Record	8 Byte	rw			
1 (0x01)	Qint.3 SP1 sensing range	Float (32)	4 Byte	rw	200.0	15.0...440.0	[mm]
2 (0x02)	Qint.3 SP2 sensing range	Float (0)	4 Byte	rw	200.0	15.0...440.0	[mm]
16385 (0x4001)	Qint.3 configuration	Record	4 Byte	rw			
1 (0x01)	Qint.3 Switchpoint logic	UInt (24)	8 Bit	rw	0	0 = Value as specified 1 = Inverted value	
2 (0x02)	Qint.3 Switchpoint mode	UInt (16)	8 Bit	rw	1	0 = Deactivated 1 = Single point mode 2 = Window mode 3 = Two point mode 128 = Foreground suppression	
3 (0x03)	Qint.3 Switchpoint hysteresis	UInt (0)	16 Bit	rw	0	0 = Auto-defined hysteresis	
16386 (0x4002)	Qint.4 SP1 / SP2	Record	8 Byte	rw			
1 (0x01)	Qint.4 SP1 sensing range	Float (32)	4 Byte	rw	200.0	15.0...440.0	[mm]
2 (0x02)	Qint.4 SP2 sensing range	Float (0)	4 Byte	rw	200.0	15.0...440.0	[mm]
16387 (0x4003)	Qint.4 configuration	Record	4 Byte	rw			
1 (0x01)	Qint.4 Switchpoint logic	UInt (24)	8 Bit	rw	0	0 = Value as specified 1 = Inverted value	
2 (0x02)	Qint.4 Switchpoint mode	UInt (16)	8 Bit	rw	1	0 = Deactivated 1 = Single point mode 2 = Window mode 3 = Two point mode 128 = Foreground suppression	
3 (0x03)	Qint.4 Switchpoint hysteresis	UInt (0)	16 Bit	rw	0	0 = Auto-defined hysteresis	

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

ENGLISH

Standard command					
Index dec (hex)		Access ¹	Value	Name	Remark [Unit]
2 (0x02)	System Command	wo	65	SP1 Single value teach	
			66	SP2 Single value teach	
			67	SP1 Two Value Teach TP1	
			68	SP1 Two Value Teach TP2	
			69	SP2 Two Value Teach TP1	
			70	SP2 Two Value Teach TP2	
			79	Teach Cancel	
			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
36007 (0x8CA7)	Teach-in error	Warning	Teach-in error
36011 (0x8CAB)	Alarm operating hours	Warning	Threshold for operating hours violated
36017 (0x8CB1)	Teach-in necessary	Notification	Teach-in required

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.

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