



8023111 0719  
9287313 147U  
**WTT4SLC\_DID8389147**  
8389147  
2851339520  
9287312 147U (1.1.0)

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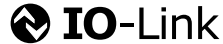
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Please note the validity of the additional operating instructions for automation functions

## 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	0.8 ms
Baudrate <sup>2</sup>	COM3
Process Data Length (IN)	4 Byte
IODD version	V1.21238
Valid for IO-Link version	1.1.0

## 2. Process data

Record<sup>3</sup>: 4 Byte

Bitoffset																		
Byte 0	Distance to Object in [mm]	31	30	29	28	27	26	25	24									
Type/Subindex	Unsigned Integer 16																	
Bitoffset																		
Byte 1	Distance to Object in [mm]	23	22	21	20	19	18	17	16									
Type/Subindex	Unsigned Integer 16																	
Bitoffset																		
Byte 2		15	14	13	12	11	10	9	8	7	6	5	4	3	2	1	0	
Type/Subindex																		
Bitoffset																		
Byte 3	Qint.6	7	6	5	4	3	2	1	0	Qint.5	7	6	5	4	3	2	1	0
Type/Subindex	Boolean	8	Boolean	7	Boolean	6	Boolean	5	Boolean	4	Boolean	3	Boolean	2	Boolean	1	Boolean	0

## 3. Service data

The following ISDUs will not be saved via Data-Storage: Profile characteristic, Teach-in channel, Teach-in state, Device / function name, Sender configuration, Temperature, Operating hours, Find me, System state, Distance to object and SLTI Version

IO-Link specific							
Index dec (hex)	Name	Format (Offset)	Length	Access <sup>1</sup>	Default Value	Value / Range	Remark [Unit]
0 (0x00)	Direct Parameters 1	Record	16 Byte	rw			
1 (0x01)	Direct Parameters 2	Record	16 Byte	rw			
12 (0x0C)	Device Access Locks	Record <sup>3</sup>	2 Byte	rw			
2 (0x02)	Data Storage Lock	Bit (1)	1 Bit	rw			
4 (0x04)	Local User Interface Lock	Bit (3)	1 Bit	rw			
16 (0x10)	Vendor Name	String	7 Byte	ro	SICK AG		
18 (0x12)	Product Name	String	18 Byte	ro			
19 (0x13)	Product ID	String	13 Byte	ro			
20 (0x14)	Product Text	String	45 Byte	ro			
21 (0x15)	Serial Number	String	8 Byte	ro			
22 (0x16)	Hardware Version	String	4 Byte	ro			
23 (0x17)	Firmware Version	String	19 Byte	ro			
24 (0x18)	Application Specific Tag	String	32 Byte	rw	*****		
36 (0x24)	Device Status	UInt	8 Bit	ro		0 = Device is OK 1 = Maintenance required 2 = Out of specification 3 = Functional check 4 = Failure 5...255 = Reserved	
40 (0x28)	Process Data Input	PD In	4 Byte	ro			
SICK device specific							
Index dec (hex)	Name	Format (Offset)	Length	Access <sup>1</sup>	Default Value	Value / Range	Remark [Unit]
13 (0x0D)	Profile characteristic	Array <sup>3</sup>	10 Byte	ro		Unsigned Integer16 [5]	
14 (0x0E)	PDInput descriptor	Array <sup>3</sup>	6 Byte	ro		Octet String [2]	
15 (0x0F)	PDOutput Descriptor	Array <sup>3</sup>	3 Byte	ro		Octet String [1]	

<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)

<sup>3</sup>Subindex access not supported



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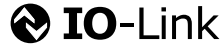
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Please note the validity of the additional operating instructions for automation functions

SICK device specific							
Index dec (hex)	Name	Format (Offset)	Length	Access <sup>1</sup>	Default Value	Value / Range	Remark [Unit]
58 (0x3A)	Teach-in channel	Uint	8 Bit	rw	0	0 = Qint1 1 = Qint1 2 = Qint2 3 = Qint3 4 = Qint4 5 = Qint5 6 = Qint6 7 = Qint7 8 = Qint8	
59 (0x3B)	Teach-in state	Record <sup>3</sup>	1 Byte	ro			
1 (0x01)	Teach flag SP2	Bit (6)	1 Bit	ro		false = Teachpoint 1 not taught true = Teachpoint 1 successfully taught	
2 (0x02)	Teach flag SP1	Bit (4)	1 Bit	ro		false = Teachpoint 1 not taught true = Teachpoint 1 successfully taught	
3 (0x03)	Teach state	Bit (0)	4 Bit	ro		0 = IDLE 1 = SP1 SUCCESS 2 = SP2 SUCCESS 5 = BUSY 7 = ERROR	
60 (0x3C)	Qint.1 SP1 / SP2	Record	4 Byte	rw			
1 (0x01)	Qint.1 SP1 sensing range	Bit (16)	16 Bit	rw		0...65535	Default value device specific [mm]
2 (0x02)	Qint.1 SP2 sensing range	Bit (0)	16 Bit	rw		0...65535	Default value device specific [mm]
61 (0x3D)	Qint.1 configuration	Record	4 Byte	rw			
1 (0x01)	Qint.1 Switchpoint logic	Bit (24)	8 Bit	rw	0	0 = not inverted	
2 (0x02)	Qint.1 Switchpoint mode	Bit (16)	8 Bit	rw	1	0 = Deactivated 1 = Single point mode 2 = Window mode 3 = Two point mode	
3 (0x03)	Qint.1 Switchpoint hysteresis	Bit (0)	16 Bit	rw	0	0 = Vendor specific default	
62 (0x3E)	Qint.2 SP1 / SP2	Record	4 Byte	rw			
1 (0x01)	Qint.2 SP1 sensing range	Bit (16)	16 Bit	rw		0...65535	Default value device specific [mm]
2 (0x02)	Qint.2 SP2 sensing range	Bit (0)	16 Bit	rw		0...65535	Default value device specific [mm]
63 (0x3F)	Qint.2 configuration	Record	4 Byte	rw			
1 (0x01)	Qint.2 Switchpoint logic	Bit (24)	8 Bit	rw	0	0 = not inverted	
2 (0x02)	Qint.2 Switchpoint mode	Bit (16)	8 Bit	rw	1	0 = Deactivated 1 = Single point mode 2 = Window mode 3 = Two point mode	
3 (0x03)	Qint.2 Switchpoint hysteresis	Bit (0)	16 Bit	rw	0	0 = Vendor specific default	
64 (0x40)	Device / function name	String	32 Byte	rw	*****		
89 (0x59)	Measurement averaging	Uint	8 Bit	rw	0	0 = 1 1 = 2 2 = 4 3 = 8 4 = 16 5 = 32 6 = 64 7 = 128 8 = 256 9 = 512	
90 (0x5A)	Teach-in offset	Int	16 Bit	rw	0	-200...200	[mm]
97 (0x61)	Sender configuration	Uint	8 Bit	rw	0	0 = Sender active 1 = Sender not active	
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/	
153 (0x99)	Temperature	Record <sup>3</sup>	1 Byte	ro			
1 (0x01)	Current temperature	Bit (0)	8 Bit	ro		-127...127	Sensor-internal temperature [°C]

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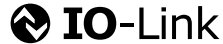
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ENGLISH

SICK device specific							
Index dec (hex)	Name	Format (Offset)	Length	Access <sup>1</sup>	Default Value	Value / Range	Remark [Unit]
190 (0xBE)	Operating hours	Record <sup>3</sup>	4 Byte	ro			
1 (0x01)	Total operating hours	Bit (0)	32 Bit	ro		0...1000000	[h]
204 (0xCC)	Find me	UInt	8 Bit	rw	0	0 = Find me deactivated 1 = Find me activated	
205 (0xCD)	SICK profile version	String	4 Byte	ro			
219 (0xDB)	Article No.	Record	7 Byte	ro			
1 (0x01)	Article No. IO-Link Device	Bit (0)	7 Byte	ro			
226 (0xE2)	System state	Record <sup>3</sup>	2 Byte	ro			
1 (0x01)	Input signal state Pin 2	Bit (7)	1 Bit	ro		false = External input LOW true = External input HIGH	
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 <sup>3</sup>	3 Byte	ro			
1 (0x01)	Distance	Bit (8)	16 Bit	ro		0...30000	[mm]
2 (0x02)	Distance qualifier	Bit (0)	2 Bit	ro		0 = Distance in range 1 = Distance over-run 2 = Distance under-run 3 = No distance information	
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 4 = Qint.5 5 = Qint.6 6 = Qint.7 7 = Qint.8 64 = Ext.input 1	
1082 (0x43A)	Input selector 2	UInt	8 Bit	rw	1	0 = Qint.1 1 = Qint.2 2 = Qint.3 3 = Qint.4 4 = Qint.5 5 = Qint.6 6 = Qint.7 7 = Qint.8 64 = Ext.input 1	
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	0	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	4 Byte	rw			
1 (0x01)	Qint.3 SP1 sensing range	Bit (16)	16 Bit	rw		0...65535	Default value device specific [mm]

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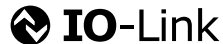
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Please note the validity of the additional operating instructions for automation functions

## ENGLISH

SICK device specific							
Index dec (hex)	Name	Format (Offset)	Length	Access <sup>1</sup>	Default Value	Value / Range	Remark [Unit]
2 (0x02)	Qint.3 SP2 sensing range	Bit (0)	16 Bit	rw		0...65535	Default value device specific [mm]
16385 (0x4001)	Qint.3 configuration	Record	4 Byte	rw			
1 (0x01)	Qint.3 Switchpoint logic	Bit (24)	8 Bit	rw	0	0 = not inverted	
2 (0x02)	Qint.3 Switchpoint mode	Bit (16)	8 Bit	rw	1	0 = Deactivated 1 = Single point mode 2 = Window mode 3 = Two point mode	
3 (0x03)	Qint.3 Switchpoint hysteresis	Bit (0)	16 Bit	rw	0	0 = Vendor specific default	
16386 (0x4002)	Qint.4 SP1 / SP2	Record	4 Byte	rw			
1 (0x01)	Qint.4 SP1 sensing range	Bit (16)	16 Bit	rw		0...65535	Default value device specific [mm]
2 (0x02)	Qint.4 SP2 sensing range	Bit (0)	16 Bit	rw		0...65535	Default value device specific [mm]
16387 (0x4003)	Qint.4 configuration	Record	4 Byte	rw			
1 (0x01)	Qint.4 Switchpoint logic	Bit (24)	8 Bit	rw	0	0 = not inverted	
2 (0x02)	Qint.4 Switchpoint mode	Bit (16)	8 Bit	rw	1	0 = Deactivated 1 = Single point mode 2 = Window mode 3 = Two point mode	
3 (0x03)	Qint.4 Switchpoint hysteresis	Bit (0)	16 Bit	rw	0	0 = Vendor specific default	
16388 (0x4004)	Qint.5 SP1 / SP2	Record	4 Byte	rw			
1 (0x01)	Qint.5 SP1 sensing range	Bit (16)	16 Bit	rw		0...65535	Default value device specific [mm]
2 (0x02)	Qint.5 SP2 sensing range	Bit (0)	16 Bit	rw		0...65535	Default value device specific [mm]
16389 (0x4005)	Qint.5 configuration	Record	4 Byte	rw			
1 (0x01)	Qint.5 Switchpoint logic	Bit (24)	8 Bit	rw	0	0 = not inverted	
2 (0x02)	Qint.5 Switchpoint mode	Bit (16)	8 Bit	rw	1	0 = Deactivated 1 = Single point mode 2 = Window mode 3 = Two point mode	
3 (0x03)	Qint.5 Switchpoint hysteresis	Bit (0)	16 Bit	rw	0	0 = Vendor specific default	
16390 (0x4006)	Qint.6 SP1 / SP2	Record	4 Byte	rw			
1 (0x01)	Qint.6 SP1 sensing range	Bit (16)	16 Bit	rw		0...65535	Default value device specific [mm]
2 (0x02)	Qint.6 SP2 sensing range	Bit (0)	16 Bit	rw		0...65535	Default value device specific [mm]
16391 (0x4007)	Qint.6 configuration	Record	4 Byte	rw			
1 (0x01)	Qint.6 Switchpoint logic	Bit (24)	8 Bit	rw	0	0 = not inverted	
2 (0x02)	Qint.6 Switchpoint mode	Bit (16)	8 Bit	rw	1	0 = Deactivated 1 = Single point mode 2 = Window mode 3 = Two point mode	
3 (0x03)	Qint.6 Switchpoint hysteresis	Bit (0)	16 Bit	rw	0	0 = Vendor specific default	
16392 (0x4008)	Qint.7 SP1 / SP2	Record	4 Byte	rw			
1 (0x01)	Qint.7 SP1 sensing range	Bit (16)	16 Bit	rw		0...65535	Default value device specific [mm]
2 (0x02)	Qint.7 SP2 sensing range	Bit (0)	16 Bit	rw		0...65535	Default value device specific [mm]
16393 (0x4009)	Qint.7 configuration	Record	4 Byte	rw			
1 (0x01)	Qint.7 Switchpoint logic	Bit (24)	8 Bit	rw	0	0 = not inverted	
2 (0x02)	Qint.7 Switchpoint mode	Bit (16)	8 Bit	rw	1	0 = Deactivated 1 = Single point mode 2 = Window mode 3 = Two point mode	
3 (0x03)	Qint.7 Switchpoint hysteresis	Bit (0)	16 Bit	rw	0	0 = Vendor specific default	
16394 (0x400A)	Qint.8 SP1 / SP2	Record	4 Byte	rw			
1 (0x01)	Qint.8 SP1 sensing range	Bit (16)	16 Bit	rw		0...65535	Default value device specific [mm]
2 (0x02)	Qint.8 SP2 sensing range	Bit (0)	16 Bit	rw		0...65535	Default value device specific [mm]
16395 (0x400B)	Qint.8 configuration	Record	4 Byte	rw			

<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)

<sup>3</sup>Subindex access not supported



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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]
1 (0x01)	Qint.8 Switchpoint logic	Bit (24)	8 Bit	rw	0	0 = not inverted	
2 (0x02)	Qint.8 Switchpoint mode	Bit (16)	8 Bit	rw	1	0 = Deactivated 1 = Single point mode 2 = Window mode 3 = Two point mode	
3 (0x03)	Qint.8 Switchpoint hysteresis	Bit (0)	16 Bit	rw	0	0 = Vendor specific default	

Standard command							
Index dec (hex)	Name	Access <sup>1</sup>	Value	Name	Remark [Unit]		
2 (0x02)	Standard Command	wo	65	Single value teach SP1			
			66	Single value teach SP2			
			130	Restore Factory Settings			

Events			
Code dec (hex)	Name	Type	Remark [Unit]
16912 (0x4210)	Device temperature over-run	Warning	Temperature is over specification
16928 (0x4220)	Device temperature under-run	Warning	Temperature is under specification
36000 (0x8CA0)	Short Circuit on Qx	Notification	Short circuit 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
36006 (0x8CA6)	Value out of specified range	Notification	Setup value out of specified range

Error			
Code dec (hex)	Additional Code	Name	Remark [Unit]
128 (0x80)	17 (0x11)	Index not available	Access occurs to a not existing index
128 (0x80)	18 (0x12)	Subindex not available	Access occurs to a not existing subindex
128 (0x80)	32 (0x20)	Service temporarily not available	Parameter is not accessible due to the current state of the device application
128 (0x80)	35 (0x23)	Access denied	Write access on a read-only parameter
128 (0x80)	48 (0x30)	Parameter value out of range	Written parameter value is outside its permitted value range
128 (0x80)	51 (0x33)	Parameter length overrun	Written parameter length is above its predefined length
128 (0x80)	52 (0x34)	Parameter length underrun	Written parameter length is below its predefined length
128 (0x80)	64 (0x40)	Invalid parameter set	Written single parameter collides with other actual parameter settings
128 (0x80)	65 (0x41)	Inconsistent parameter set	Parameter inconsistencies were found at the end of block parameter transfer, device plausibility check failed

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