



8026773 1021
9342729 1DINA
WLD4F_WID8389305
8389305
2798519199
9342705 1DNA (1.1.0)

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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	2.3 ms
Baudrate ²	COM2
Process Data Length (IN)	2 Byte
IODD version	V1.30612
Valid for IO-Link version	1.1.0

2. Process data

Record³: 2 Byte

Bitoffset																																				
Byte 0	Current receive level (live)				15				14				13				12				11				10				9				8			
Type/Subindex	Unsigned Integer 14																																			
Bitoffset																																				
Byte 1	Current receive level (live)				7				6				5				4				3				2				1				0			
Type/Subindex	Unsigned Integer 14																3 Boolean				2 Boolean				1 Boolean				0 Boolean							

3. Service data

The following ISDUs will not be saved via Data-Storage: Profile characteristic, Teach-in channel, Teach-in state, Device specific tag, Sender configuration, Quality of teach, Temperature zone, Quality of run, Current receiver level (live), Find me 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			
2 (0x02)	Data Storage Lock	Bit (1)	1 Bit	rw	0	0 = unlocked 1 = locked	
4 (0x04)	Local User Interface Lock	Bit (3)	1 Bit	rw	0	0 = unlocked 1 = locked	
16 (0x10)	Vendor Name	String	7 Byte	ro	SICK AG		
17 (0x11)	Vendor Text	String	64 Byte	ro			
18 (0x12)	Product Name	String	18 Byte	ro			
19 (0x13)	Product ID	String	7 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	
37 (0x25)	Detailed Device Status	Array ³	9 Byte	ro		Octet String [3]	
40 (0x28)	Process Data Input	PD In	2 Byte	ro			

SICK device specific							
Index dec (hex)	Name	Format (Offset)	Length	Access ¹	Default Value	Value / Range	Remark [Unit]
13 (0x0D)	Profile characteristic	Array ³	12 Byte	ro		Unsigned Integer16 [6]	
14 (0x0E)	PDInput descriptor	Array ³	6 Byte	ro		Octet String [2]	
15 (0x0F)	PDOOutput descriptor	Array ³	3 Byte	ro		Octet String [1]	
58 (0x3A)	Teach-in channel	UInt	8 Bit	rw	0	0 = default Qint. = Qint.1 1 = Qint.1 2 = Qint.2	
59 (0x3B)	Teach-in state	Record ³	1 Byte	ro			
1 (0x01)	Teach flags	Bit (4)	1 Bit	ro		false = Teachpoint 1 not taught true = Teachpoint 1 successfully taught	
2 (0x02)	Teach state	Bit (0)	4 Bit	ro		0 = IDLE 1 = SP1 SUCCESS 5 = BUSY 7 = ERROR	

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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ENGLISH

SICK device specific							
Index dec (hex)	Name	Format (Offset)	Length	Access ¹	Default Value	Value / Range	Remark [Unit]
1084 (0x43C)	Logic 2	UInt	8 Bit	rw	0	0 = DIRECT 1 = AND 2 = OR	
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	
Standard command							
Index dec (hex)		Access ¹			Value	Name	Remark [Unit]
2 (0x02)	Standard Command	wo			65	Single value teach	
					130	Restore Factory Settings	
					228	Reset diagnostics parameter	
Events							
Code dec (hex)	Name	Type				Remark [Unit]	
36000 (0x8CA0)	Short Circuit on Qx	Warning				Short circuit on outputs	
36001 (0x8CA1)	New parameters	Notification				Parameters have been changed	
36004 (0x8CA4)	Quality of run alarm	Warning				Low device performance, clean sensor	
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				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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