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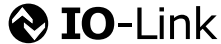
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Please note the validity of the additional operating instructions for automation functions

ENGLISH

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	0.5 ms
Baudrate ²	COM3
Process Data Length (IN)	4 Byte
IODD version	V1.0
Valid for IO-Link version	1.1.0

2. Process data

Record: 4 Byte

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

Bitoffset										
Byte 0	AO = Current receiver level live	31	30	29	28	27	26	25	24	
Type/Subindex	Integer 16									
Bitoffset										
Byte 1	AO = Current receiver level live	23	22	21	20	19	18	17	16	
Type/Subindex	Integer 16								1	
Bitoffset										
Byte 2		15	14	13	12	11	10	9	8	
Type/Subindex										
Bitoffset										
Byte 3		7	6	5	4	3	2	1	0	
Type/Subindex					Qint.2	3	Qint.1	2	QL2	1
					Boolean	2	Boolean	3	Boolean	4
									QL1	0
									Boolean	5

Record: 4 Byte

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

Bitoffset										
Byte 0	AO = Smart Task analog value Counter value	31	30	29	28	27	26	25	24	
Type/Subindex	Unsigned Integer 16									
Bitoffset										
Byte 1	AO = Smart Task analog value Counter value	23	22	21	20	19	18	17	16	
Type/Subindex	Unsigned Integer 16								1	
Bitoffset										
Byte 2		15	14	13	12	11	10	9	8	
Type/Subindex										
Bitoffset										
Byte 3		7	6	5	4	3	2	1	0	
Type/Subindex					Qint.2	3	Qint.1	2	QL2	1
					Boolean	2	Boolean	3	Boolean	4
									QL1	0
									Boolean	5

3. Service data

The following ISDUs will not be saved via Data-Storage: Teach-in channel, Device / function name, Find me and Job assurance: Job number

IO-Link specific										
Index dec (hex)	Name	Format (Offset)	Length	Access ¹	Default Value	Value / Range	Remark [Unit]			
12 (0x0C)	Device Access Locks	Record	2 Byte	rw						
2 (0x02)	Data Storage Lock	Bit (1)	1 Bit	rw						
3 (0x03)	Local Parameterization Lock	Bit (2)	1 Bit	rw						
4 (0x04)	Local User Interface Lock	Bit (3)	1 Bit	rw						
19 (0x13)	Product ID	String	7 Byte	ro	6076723					
20 (0x14)	Product Text	String	64 Byte	ro	Photoelectric Fiber Sensor					
21 (0x15)	Serial Number	String	16 Byte	ro						
22 (0x16)	Hardware Version	String	64 Byte	ro						
23 (0x17)	Firmware Version	String	64 Byte	ro						
24 (0x18)	Application Specific Tag	String	32 Byte	rw	*****					
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 5...255 = Reserved		
37 (0x25)	Detailed Device Status	Array	15 Byte	ro	Octet String [5]					
40 (0x28)	Process Data Input	PD In	4 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	12 Byte	ro	Unsigned Integer16 [6]					
14 (0x0E)	PDInput descriptor	Array	6 Byte	ro	Octet String [2]					

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)

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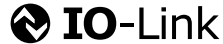
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SICK device specific									
Index dec (hex)	Name	Format (Offset)	Length	Access ¹	Default Value	Value / Range	Remark [Unit]		
15 (0x0F)	PDOOutput descriptor	Array	3 Byte	ro	Octet String [1]				
58 (0x3A)	Teach-in channel	UInt	8 Bit	rw	0	0 = default Quint. = Quint.1 1 = Quint.1 2 = Quint.2			
59 (0x3B)	Teach-in state	Record	1 Byte	ro					
	2 (0x02) Teach flag SP1 TP2	Bit (5)	1 Bit	ro	0	false = Teachpoint 2 not taught true = Teachpoint 2 successfully taught			
60 (0x3C)	Qint.1 SP1 / SP2	Record	4 Byte	rw					
	1 (0x01) Qint.1 threshold 1	Bit (16)	16 Bit	rw	100	-9999...9999			
	2 (0x02) Qint.1 threshold 2	Bit (0)	16 Bit	rw	200	-9999...9999			
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 128 = Edge height jump			
	3 (0x03) Qint.1 Switchpoint hysteresis	Bit (0)	16 Bit	rw	5	1...90	[%]		
62 (0x3E)	Qint.2 SP1 / SP2	Record	4 Byte	rw					
	1 (0x01) Qint.2 threshold 1	Bit (16)	16 Bit	rw	100	-9999...9999			
	2 (0x02) Qint.2 threshold 2	Bit (0)	16 Bit	rw	200	-9999...9999			
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 128 = Edge height jump			
	3 (0x03) Qint.2 Switchpoint hysteresis	Bit (0)	16 Bit	rw	5	1...90	[%]		
64 (0x40)	Device / function name	String	32 Byte	rw	*****				
83 (0x53)	Detection mode	UInt	8 Bit	rw	1	0 = Through-beam mode 1 = Proximity mode			
90 (0x5A)	Teach-in offset	Int	8 Bit	rw	-10	-99...99	[%]		
93 (0x5D)	Setup edge height jump Quint.1	Record	8 Byte	rw	With reference to index 61-2, 128	Edge height jump			
	1 (0x01) Cycle offset	Bit (56)	8 Bit	rw	50	1...255			
	2 (0x02) Min. height jump	Bit (40)	16 Bit	rw	100	0...9999			
	3 (0x03) Max. height jump	Bit (24)	16 Bit	rw	1000	0...9999			
	4 (0x04) Hysteresis	Bit (8)	16 Bit	rw	5	1...9999			
	5 (0x05) Jump direction	Bit (0)	8 Bit	rw	2	0 = Positive edge 1 = Negative edge 2 = Positive and negative edge			
94 (0x5E)	Setup edge height jump Quint.2	Record	8 Byte	rw	With reference to index 63-2, 128	Edge height jump			
95 (0x5F)	Response time	UInt	8 Bit	rw	4	0 = 8000 µs 1 = 2000 µs 2 = 1000 µs 3 = 500 µs 4 = 250 µs 5 = 70 µs 6 = 16 µs	[µs]		
97 (0x61)	Sender configuration	Record	3 Byte	rw					
	1 (0x01) Sender activity	Bit (16)	8 Bit	rw	0	0 = Sender active 1 = Sender not active			
	2 (0x02) Sender intensity	Bit (8)	8 Bit	rw	0	0 = Maximum 1 = Medium 2 = Minimum 10 = Auto			
	3 (0x03) Sender power control	Bit (0)	8 Bit	rw	1	0 = Off 1 = On			
112 (0x70)	AutoAdapt	UInt	8 Bit	rw	0	0 = Off 1 = On - normal 2 = On - fast 3 = On - high			
120 (0x78)	Process data select	UInt	8 Bit	rw	0	0 = AO = Current receiver level live 18 = AO = Smart Task analog value Counter			
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 33 = Quality of run alarm output 34 = Switching signal QL2 35 = Detection output Quint.1 36 = Detection output Quint.2 39 = Switching signal QL1 40 = Switching signal QL1/			
153 (0x99)	Temperature	Record	5 Byte	ro	Sensor-internal temperature				
	1 (0x01) Current temperature	Bit (32)	8 Bit	ro	0	-128...127	[°C]		
	2 (0x02) Max. temperature all time	Bit (24)	8 Bit	ro	0	-128...127	[°C]		
	3 (0x03) Min. temperature all time	Bit (16)	8 Bit	ro	0	-128...127	[°C]		
	4 (0x04) Max. temperature since last reset	Bit (8)	8 Bit	ro	0	-128...127	[°C]		
	5 (0x05) Min. temperature since last reset	Bit (0)	8 Bit	ro	0	-128...127	[°C]		
175 (0xAF)	Quality of run	UInt	8 Bit	ro	0	0...254 255 = not available	[%]		
176 (0xB0)	Quality of run alarm threshold	UInt	8 Bit	rw	50	0...90	[%]		

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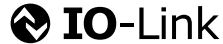
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SICK device specific							
Index dec (hex)	Name	Format (Offset)	Length	Access ¹	Default Value	Value / Range	Remark [Unit]
179 (0xB3)	Alarm thresholds for diagnostic parameters						
	1 (0x01)	Upper temperature threshold	Bit (40)	8 Bit	rw	80	-128...127 [°C]
	2 (0x02)	Lower temperature threshold	Bit (32)	8 Bit	rw	-30	-128...127 [°C]
3 (0x03)	Operating hours threshold	Bit (0)	32 Bit	rw	40000	0...1000000 [h]	
180 (0xB4)	Current receiver level (live)	Int	16 Bit	ro	0	-9999...9999	
181 (0xB5)	Upper Threshold (switch-on) dynamic	Int	16 Bit	ro	100	-9999...9999	
182 (0xB6)	Lower Threshold (switch-off) dynamic	Int	16 Bit	ro	68	-9999...9999	
190 (0xBE)	Operating hours						
	1 (0x01)	Total operating hours	Bit (32)	32 Bit	ro	0	[h]
2 (0x02)	Operating hours since last reset	Bit (0)	32 Bit	ro	0	[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	1.01		
222 (0xDE)	Job assurance: Job number	UInt	8 Bit	rw	1	1...5	With reference to System Command 208d ("Load selected job number") and 209d ("Store to selected job number").
226 (0xE2)	System state						
	1 (0x01)	Input signal state Pin 2	Bit (7)	1 Bit	ro	0	true = External input HIGH false = External input LOW
2 (0x02)	Quality of run alarm output	Bit (6)	1 Bit	ro	0	true = Alarm active false = Alarm not active	
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	
234 (0xEA)	Display settings						
	1 (0x01)	Display indicator mode, channel 1	Bit (56)	8 Bit	rw	0	0 = Digits (absolute) 1 = Bar graph 2 = Percentage value 3 = Counter value 4 = Edge value
2 (0x02)	Display indicator mode, channel 2	Bit (48)	8 Bit	rw	0	0 = Digits (absolute) 1 = Bar graph 2 = Percentage value 3 = Counter value 4 = Edge value	
3 (0x03)	Display brightness	Bit (40)	8 Bit	rw	50	10...100	
4 (0x04)	Energy saving mode	Bit (32)	8 Bit	rw	0	0 = Off 1 = On	
5 (0x05)	Turn display	Bit (24)	8 Bit	rw	0	0 = Off 1 = On	
6 (0x06)	Display inversion	Bit (16)	8 Bit	rw	0	0 = Off 1 = On	
7 (0x07)	Display alerts	Bit (8)	8 Bit	rw	0	0 = Off 1 = On	
8 (0x08)	Display language	Bit (0)	8 Bit	rw	1	1 = English 2 = German 7 = Chinese 8 = Japanese 10 = Korean	
1000 (0x3E8)	Counter version	String	8 Byte	ro	1.2.0		
1001 (0x3E9)	Counter mode	UInt	8 Bit	rw	2	0 = Up 1 = Down 2 = OFF	
1002 (0x3EA)	Preset mode	UInt	8 Bit	rw	0	0 = Preset internal disabled 1 = Preset internal enabled	
1003 (0x3EB)	Preset value	UInt	16 Bit	rw	0	0...16383	
1004 (0x3EC)	Comparator value low	UInt	16 Bit	rw	10	0...16383	
1005 (0x3ED)	Comparator value high	UInt	16 Bit	rw	10	0...16383	
1006 (0x3EE)	Counter value	UInt	16 Bit	ro	0	0...16383	
1032 (0x408)	Debounce version	String	8 Byte	ro	1.1.0		
1033 (0x409)	Debounce time 1	UInt	32 Bit	rw	0	0...30000000 [µs]	
1034 (0x40A)	Quality D1	UInt	16 Bit	ro	100	0...100 [%]	
1035 (0x40B)	Debounce time 2	UInt	32 Bit	rw	0	0...30000000 [µs]	
1036 (0x40C)	Quality D2	UInt	16 Bit	ro	100	0...100 [%]	
1080 (0x438)	SLTI Version	String	8 Byte	ro	1.1.0		
1081 (0x439)	Input selector 1	UInt	8 Bit	rw	0	0 = Qint.1 1 = Qint.2 64 = Ext.input 1	
1082 (0x43A)	Input selector 2	UInt	8 Bit	rw	1	0 = Qint.1 1 = Qint.2 64 = Ext.input 1	
1083 (0x43B)	Logic 1	UInt	8 Bit	rw	0	0 = DIRECT 3 = Window Mode 4 = Hysteresis	
1084 (0x43C)	Logic 2	UInt	8 Bit	rw	0	0 = DIRECT 3 = Window Mode 4 = Hysteresis	

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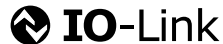
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Please note the validity of the additional operating instructions for automation functions

ENGLISH

SICK device specific							
Index dec (hex)	Name	Format (Offset)	Length	Access ¹	Default Value	Value / Range	Remark [Unit]
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) 5 = T-on delay impulse	
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) 5 = T-on delay impulse	
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	
1091 (0x443)	Time 1.1 setup	UInt	16 Bit	rw	1	1...30000	Only in effect when 1085dez is set to 3 (T-off delay) or 5 (definition of the impulse width). [ms]
1092 (0x444)	Time 2.1 setup	UInt	16 Bit	rw	1	1...30000	Only in effect when 1086dez is set to 3 (T-off delay) or 5 (definition of the impulse width). [ms]
1093 (0x445)	Inverter Ext.input	UInt	8 Bit	rw	0	0 = not inverted 1 = inverted	
4065 (0xFE1)	Job assurance data collection 1	OStr	128 Byte	rw			
4066 (0xFE2)	Job assurance data collection 2	OStr	128 Byte	rw			
4067 (0xFE3)	Job assurance data collection 3	OStr	128 Byte	rw			
4068 (0xFE4)	Job assurance data collection 4	OStr	128 Byte	rw			
4069 (0xFE5)	Job assurance data collection 5	OStr	128 Byte	rw			

Standard command							
Index dec (hex)	Name	Access ¹	Value	Name	Value	Remark [Unit]	
2 (0x02)	Standard Command	wo	65	1-Point Teach-in (SP1)			
			66	1-Point Teach-in (SP2)			
			67	2-Point Teach-in: Teachpoint 1			
			68	2-Point Teach-in: Teachpoint 2			
			71	Dynamic Teach-in Start			
			72	Dynamic Teach-in Stop			
			75	Zone Teach-in			
			129	Application Reset			
			130	Restore Factory Settings			
			192	Reset counter			
			193	Preset counter			
			208	Load selected job number			
			209	Store to selected job number			
			214	Zero set of measuring value			
			215	Zero reset of measuring value			
			228	Reset diagnostics parameter			

Events			
Code dec (hex)	Name	Type	Remark [Unit]
30480 (0x7710)	Short circuit	Error	Check installation
36001 (0x8CA1)	New parameters	Notification	Parameters have been changed
36004 (0x8CA4)	Quality of run alarm	Warning	Low device performance, clean sensor
36007 (0x8CA7)	Teach-in error	Warning	Teach-in failure occurred
36008 (0x8CA8)	Alarm upper temperature threshold	Warning	Upper threshold for temperature is exceeded
36011 (0x8CAB)	Alarm operating hours	Warning	Threshold for operating hours violated
36015 (0x8CAF)	Alarm lower temperature threshold	Warning	Lower threshold for temperature is crossed

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)