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SLT060

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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	2.7 ms
Baudrate <sup>2</sup>	COM2
Process Data Length (OUT)	2 Byte
IODD version	V0.1
Valid for IO-Link version	1.1.0

## 2. Process data

Record: 2 Byte

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

Bitoffset																
Byte 0	15	14	13	12	11	10	9	8								
Type/Subindex																
Bitoffset							6	5	4	3	2	1	0			
Byte 1							User alarm indication	Buzzer	Tier 5	Tier 4	Tier 3	Tier 2	Tier 1			
Type/Subindex							Unsigned Integer 2	Boolean	Boolean	Boolean	Boolean	Boolean	Boolean			

Record: 2 Byte

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

Bitoffset																
Byte 0	15	14	13	12	11	10	9	8								
Type/Subindex																
Bitoffset							6	5	4	3	2	1	0			
Byte 1							User alarm indication	Buzzer								
Type/Subindex							Unsigned Integer 2	Boolean								

Record: 2 Byte

Condition: ISDU: Process data select, Index: 120, Subindex: 0, Value: 2

Bitoffset																
Byte 0	15	14	13	12	11	10	9	8								
Type/Subindex																
Bitoffset							6	5	4	3	2	1	0			
Byte 1							User alarm indication	Buzzer				Animation Reset	Animation Enable			
Type/Subindex							Unsigned Integer 2	Boolean				Boolean	Boolean			

## 3. Service data

The following ISDUs will not be saved via Data-Storage: Device Specific Tag, Sender configuration and Find me

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	2 Byte	rw			
2 (0x02)	Data Storage Lock	Bit (1)	1 Bit	rw			
16 (0x10)	Vendor Name	String	48 Byte	ro	SICK AG		
17 (0x11)	Vendor Text	String	48 Byte	ro	<a href="http://www.sick.com">www.sick.com</a>		
18 (0x12)	Product Name	String	32 Byte	ro	SLT060-0B010J700		
19 (0x13)	Product ID	String	16 Byte	ro	6075938		
20 (0x14)	Product Text	String	32 Byte	ro	Smart Light Tower		
21 (0x15)	Serial Number	String	16 Byte	ro	YWWnnnn		
22 (0x16)	Hardware Version	String	16 Byte	ro	N000		
23 (0x17)	Firmware Version	String	16 Byte	ro	1.0.0		
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	

<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)

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

### ENGLISH

IO-Link specific							
Index dec (hex)	Name	Format (Offset)	Length	Access <sup>1</sup>	Default Value	Value / Range	Remark [Unit]
37 (0x25)	Detailed Device Status	Array	6 Byte	ro		Octet String [2]	
41 (0x29)	Process Data Output	PD Out	2 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	2 Byte	ro		Unsigned Integer16 [1]	
14 (0x0E)	PDInput descriptor	Array	3 Byte	ro		Octet String [1]	Common Profile Process data description
15 (0x0F)	PDOOutput descriptor	Array	6 Byte	ro		Octet String [2]	Common Profile Process data description (only valid for Signal Light Mode; see index 120)
25 (0x19)	Function Tag	String	32 Byte	rw	*****		
26 (0x1A)	Location Tag	String	32 Byte	rw	*****		
64 (0x40)	Device Specific Tag	String	32 Byte	rw	*****		
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	0	0 = Signal Light Mode 1 = Level Meter Mode 2 = Animation Mode	
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		
227 (0xE3)	Notification handling	UInt	8 Bit	rw	0	0 = All enabled 1 = All disabled	Does not affect the event "DS_UPLOAD_REQ"
256 (0x100)	User color	UInt	8 Bit	rw	7	0 = Off 1 = Red 2 = Orange 3 = Maroon 4 = Brown 5 = Yellow 6 = Yellow-green 7 = Lemon 8 = Light green 9 = Green 10 = Lime 11 = Cyan 12 = Azure 13 = Blue 14 = Dark blue 15 = Ultramarine 16 = Purple 17 = Slate blue 18 = Indigo 19 = Magenta 20 = Pink 21 = White	
257 (0x101)	User alarm indication 1	Record	20 Byte	rw			
1 (0x01)	Segment 1	Bit (152)	8 Bit	rw	0	0 = Off 1 = Red 2 = Orange 3 = Maroon 4 = Brown 5 = Yellow 6 = Yellow-green 7 = Lemon 8 = Light green 9 = Green 10 = Lime 11 = Cyan 12 = Azure 13 = Blue 14 = Dark blue 15 = Ultramarine 16 = Purple 17 = Slate blue 18 = Indigo 19 = Magenta 20 = Pink 21 = White	
2 (0x02)	Segment 2	Bit (144)	8 Bit	rw	0	See Segment 1	
3 (0x03)	Segment 3	Bit (136)	8 Bit	rw	0	See Segment 1	
4 (0x04)	Segment 4	Bit (128)	8 Bit	rw	0	See Segment 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)

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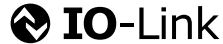
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### ENGLISH

SICK device specific							
Index dec (hex)	Name	Format (Offset)	Length	Access <sup>1</sup>	Default Value	Value / Range	Remark [Unit]
5 (0x05)	Segment 5	Bit (120)	8 Bit	rw	0	See Segment 1	
6 (0x06)	Segment 6	Bit (112)	8 Bit	rw	0	See Segment 1	
7 (0x07)	Segment 7	Bit (104)	8 Bit	rw	0	See Segment 1	
8 (0x08)	Segment 8	Bit (96)	8 Bit	rw	0	See Segment 1	
9 (0x09)	Segment 9	Bit (88)	8 Bit	rw	0	See Segment 1	
10 (0x0A)	Segment 10	Bit (80)	8 Bit	rw	0	See Segment 1	
11 (0x0B)	Segment 11	Bit (72)	8 Bit	rw	0	See Segment 1	
12 (0x0C)	Segment 12	Bit (64)	8 Bit	rw	0	See Segment 1	
13 (0x0D)	Segment 13	Bit (56)	8 Bit	rw	0	See Segment 1	
14 (0x0E)	Segment 14	Bit (48)	8 Bit	rw	0	See Segment 1	
15 (0x0F)	Segment 15	Bit (40)	8 Bit	rw	0	See Segment 1	
16 (0x10)	Segment 16	Bit (32)	8 Bit	rw	0	See Segment 1	
17 (0x11)	Segment 17	Bit (24)	8 Bit	rw	0	See Segment 1	
18 (0x12)	Segment 18	Bit (16)	8 Bit	rw	0	See Segment 1	
19 (0x13)	Segment 19	Bit (8)	8 Bit	rw	0	See Segment 1	
20 (0x14)	Segment 20	Bit (0)	8 Bit	rw	0	See Segment 1	
258 (0x102)	User alarm indication 2	Record	20 Byte	rw			Same Structure as Index 257
259 (0x103)	User alarm indication 3	Record	20 Byte	rw			Same Structure as Index 257
260 (0x104)	Direction of flow	UInt	8 Bit	rw	0	0 = Bottom up 1 = Top down	Level Meter Mode & Animation Mode
261 (0x105)	Level meter thresholds	Record	20 Byte	rw			Level Meter Mode
1 (0x01)	Segment 1	Bit (152)	8 Bit	rw	0	0...100	
2 (0x02)	Segment 2	Bit (144)	8 Bit	rw	5	0...100	
3 (0x03)	Segment 3	Bit (136)	8 Bit	rw	10	0...100	
4 (0x04)	Segment 4	Bit (128)	8 Bit	rw	15	0...100	
5 (0x05)	Segment 5	Bit (120)	8 Bit	rw	20	0...100	
6 (0x06)	Segment 6	Bit (112)	8 Bit	rw	25	0...100	
7 (0x07)	Segment 7	Bit (104)	8 Bit	rw	30	0...100	
8 (0x08)	Segment 8	Bit (96)	8 Bit	rw	35	0...100	
9 (0x09)	Segment 9	Bit (88)	8 Bit	rw	40	0...100	
10 (0x0A)	Segment 10	Bit (80)	8 Bit	rw	45	0...100	
11 (0x0B)	Segment 11	Bit (72)	8 Bit	rw	50	0...100	
12 (0x0C)	Segment 12	Bit (64)	8 Bit	rw	55	0...100	
13 (0x0D)	Segment 13	Bit (56)	8 Bit	rw	60	0...100	
14 (0x0E)	Segment 14	Bit (48)	8 Bit	rw	65	0...100	
15 (0x0F)	Segment 15	Bit (40)	8 Bit	rw	70	0...100	
16 (0x10)	Segment 16	Bit (32)	8 Bit	rw	75	0...100	
17 (0x11)	Segment 17	Bit (24)	8 Bit	rw	80	0...100	
18 (0x12)	Segment 18	Bit (16)	8 Bit	rw	85	0...100	
19 (0x13)	Segment 19	Bit (8)	8 Bit	rw	90	0...100	
20 (0x14)	Segment 20	Bit (0)	8 Bit	rw	95	0...100	
262 (0x106)	Segment colors	Record	20 Byte	rw			Level Meter Mode & Animation Mode

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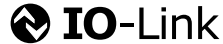
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Please note the validity of the additional operating instructions for automation functions

ENGLISH

SICK device specific							
Index dec (hex)	Name	Format (Offset)	Length	Access <sup>1</sup>	Default Value	Value / Range	Remark [Unit]
1 (0x01)	Segment 1	Bit (152)	8 Bit	rw	13	1 = Red 2 = Orange 3 = Maroon 4 = Brown 5 = Yellow 6 = Yellow-green 7 = Lemon 8 = Light green 9 = Green 10 = Lime 11 = Cyan 12 = Azure 13 = Blue 14 = Dark blue 15 = Ultramarine 16 = Purple 17 = Slate blue 18 = Indigo 19 = Magenta 20 = Pink 21 = White	
2 (0x02)	Segment 2	Bit (144)	8 Bit	rw	13	See Segment 1	
3 (0x03)	Segment 3	Bit (136)	8 Bit	rw	13	See Segment 1	
4 (0x04)	Segment 4	Bit (128)	8 Bit	rw	13	See Segment 1	
5 (0x05)	Segment 5	Bit (120)	8 Bit	rw	11	See Segment 1	
6 (0x06)	Segment 6	Bit (112)	8 Bit	rw	11	See Segment 1	
7 (0x07)	Segment 7	Bit (104)	8 Bit	rw	11	See Segment 1	
8 (0x08)	Segment 8	Bit (96)	8 Bit	rw	11	See Segment 1	
9 (0x09)	Segment 9	Bit (88)	8 Bit	rw	9	See Segment 1	
10 (0x0A)	Segment 10	Bit (80)	8 Bit	rw	9	See Segment 1	
11 (0x0B)	Segment 11	Bit (72)	8 Bit	rw	9	See Segment 1	
12 (0x0C)	Segment 12	Bit (64)	8 Bit	rw	9	See Segment 1	
13 (0x0D)	Segment 13	Bit (56)	8 Bit	rw	5	See Segment 1	
14 (0x0E)	Segment 14	Bit (48)	8 Bit	rw	5	See Segment 1	
15 (0x0F)	Segment 15	Bit (40)	8 Bit	rw	5	See Segment 1	
16 (0x10)	Segment 16	Bit (32)	8 Bit	rw	5	See Segment 1	
17 (0x11)	Segment 17	Bit (24)	8 Bit	rw	1	See Segment 1	
18 (0x12)	Segment 18	Bit (16)	8 Bit	rw	1	See Segment 1	
19 (0x13)	Segment 19	Bit (8)	8 Bit	rw	1	See Segment 1	
20 (0x14)	Segment 20	Bit (0)	8 Bit	rw	1	See Segment 1	
263 (0x107)	Segment lighting style	Record	20 Byte	rw			Level Meter Mode & Animation Mode
1 (0x01)	Segment 1	Bit (152)	8 Bit	rw	0	0 = Continuous 1 = Slow blink 2 = Slow flash 3 = Slow gradation 17 = Mid blink 18 = Mid flash 19 = Mid gradation 33 = Fast blink 34 = Fast flash 35 = Fast gradation	
2 (0x02)	Segment 2	Bit (144)	8 Bit	rw	0	See Segment 1	
3 (0x03)	Segment 3	Bit (136)	8 Bit	rw	0	See Segment 1	
4 (0x04)	Segment 4	Bit (128)	8 Bit	rw	0	See Segment 1	
5 (0x05)	Segment 5	Bit (120)	8 Bit	rw	1	See Segment 1	
6 (0x06)	Segment 6	Bit (112)	8 Bit	rw	1	See Segment 1	
7 (0x07)	Segment 7	Bit (104)	8 Bit	rw	1	See Segment 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)



# SICK

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## SLT060

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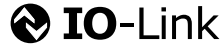
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### ENGLISH

SICK device specific							
Index dec (hex)	Name	Format (Offset)	Length	Access <sup>1</sup>	Default Value	Value / Range	Remark [Unit]
272 (0x110)	Buzzer sound effect	Uint	8 Bit	rw	0	0 = Off 1 = Effect 1 2 = Effect 2 3 = Effect 3 4 = Effect 4 5 = Effect 5 6 = Effect 6 7 = Effect 7 8 = Effect 8	

Standard command							
Index dec (hex)	Name	Access <sup>1</sup>	Value	Name	Value	Remark [Unit]	
2 (0x02)	Standard Command	wo	129	Application Reset			
			130	Restore Factory Settings			

Events							
Code dec (hex)	Name	Type	Value	Name	Value	Remark [Unit]	
20480 (0x5000)	Device hardware fault	Error		Device Exchange			
25376 (0x6320)	Parameter error	Error		Check data sheet and values			

Error							
Code dec (hex)	Additional Code	Name	Value	Name	Value	Remark [Unit]	
128 (0x80)	0 (0x00)	Device application error - no details		Service has been refused by the device application and no detailed information of the incident is available			
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)	53 (0x35)	Function not available		Written command is not supported by the device application			
128 (0x80)	54 (0x36)	Function temporarily unavailable		Written command is not available due to the current state of the device application			
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			
128 (0x80)	130 (0x82)	Application not ready		Read or write service is refused due to a temporarily unavailable application			

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