



8023525 0818

SIG100\_DID8389010

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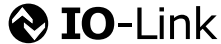
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Please note the validity of the additional operating instructions for automation functions

### 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	5.1 ms
Baudrate <sup>2</sup>	COM2
Process Data Length (IN)	8 Byte
Process Data Length (OUT)	2 Byte
IODD version	V1.04
Valid for IO-Link version	1.1.0

### 2. Process data

PD\_ProcessData\_1  
Record : 8 Byte - Process Data In  
Condition: ISDU: Process data select, Index: 120, Subindex: 0, Value: 128

Bitoffset																
Byte 0	Analog value 2	63	62	61	60	59	58	57	56							
Type/Subindex	Unsigned Integer 16															
Bitoffset																
Byte 1	Analog value 2	55	54	53	52	51	50	49	48							
Type/Subindex	Unsigned Integer 16															
Bitoffset																
Byte 2	Analog value 1	47	46	45	44	43	42	41	40							
Type/Subindex	Unsigned Integer 16															
Bitoffset																
Byte 3	Analog value 1	39	38	37	36	35	34	33	32							
Type/Subindex	Unsigned Integer 16															
Bitoffset																
Byte 4																
Type/Subindex																
Bitoffset																
Byte 5			23	22	21	20	19	18	17	16						
Type/Subindex			Boolean	20	Boolean	19	Boolean	18	Boolean	17	Boolean	16	Boolean	15	Boolean	14
Bitoffset																
Byte 6	Qint.8	15	Qint.7	14	Qint.6	13	Qint.5	12	Qint.4	11	Qint.3	10	Qint.2	9	Qint.1	8
Type/Subindex	Boolean	16	Boolean	15	Boolean	14	Boolean	13	Boolean	12	Boolean	11	Boolean	10	Boolean	9
Bitoffset																
Byte 7	QL8	7	QL7	6	QL6	5	QL5	4	QL4	3	QL3	2	QL2	1	QL1	0
Type/Subindex	Boolean	8	Boolean	7	Boolean	6	Boolean	5	Boolean	4	Boolean	3	Boolean	2	Boolean	1

PD\_ProcessData\_1  
Record : 2 Byte - Process Data Out  
Condition: ISDU: Process data select, Index: 120, Subindex: 0, Value: 128

Bitoffset																
Byte 0	IL16	15	IL15	14	IL14	13	IL13	12	IL12	11	IL11	10	IL10	9	IL9	8
Type/Subindex	Boolean	16	Boolean	15	Boolean	14	Boolean	13	Boolean	12	Boolean	11	Boolean	10	Boolean	9
Bitoffset																
Byte 1	IL8	7	IL7	6	IL6	5	IL5	4	IL4	3	IL3	2	IL2	1	IL1	0
Type/Subindex	Boolean	8	Boolean	7	Boolean	6	Boolean	5	Boolean	4	Boolean	3	Boolean	2	Boolean	1

PD\_ProcessData\_2  
Record : 8 Byte - Process Data In  
Condition: ISDU: Process data select, Index: 120, Subindex: 0, Value: 129

Bitoffset																
Byte 0	Analog value 2	63	62	61	60	59	58	57	56							
Type/Subindex	Unsigned Integer 16															
Bitoffset																
Byte 1	Analog value 2	55	54	53	52	51	50	49	48							
Type/Subindex	Unsigned Integer 16															

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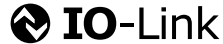
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Please note the validity of the additional operating instructions for automation functions

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Bitoffset																
Byte 2	Analog value 1															
Type/Subindex	Unsigned Integer 16															
Bitoffset																
Byte 3	Analog value 1															
Type/Subindex	Unsigned Integer 16															
Bitoffset																
Byte 4																
Type/Subindex																
Bitoffset																
Byte 5	Qint.13				Qint.12				Qint.11				Qint.10			
Type/Subindex	Boolean				Boolean				Boolean				Boolean			
Bitoffset																
Byte 6	Qint.8		Qint.7		Qint.6		Qint.5		Qint.4		Qint.3		Qint.2		Qint.1	
Type/Subindex	Boolean		Boolean		Boolean		Boolean		Boolean		Boolean		Boolean		Boolean	
Bitoffset																
Byte 7	QL8		QL7		QL6		QL5		QL4		QL3		QL2		QL1	
Type/Subindex	Boolean		Boolean		Boolean		Boolean		Boolean		Boolean		Boolean		Boolean	

PD\_ProcessData 2  
Record 2 Byte - Process Data Out  
Condition: ISDU: Process data select, Index: 120, Subindex: 0, Value: 129

Bitoffset																
Byte 0	Analog value															
Type/Subindex	Unsigned Integer 16															
Bitoffset																
Byte 1	Analog value															
Type/Subindex	Unsigned Integer 16															

3. Service data

The following ISDU will not be saved via Data-Storage: Find me

IO-Link specific							
Index dec (hex)	Name	Format (Offset)	Length	Access <sup>1</sup>	Default Value	Value / Range	Remark [Unit]
12 (0x0C)	Device Access Locks	Record <sup>2</sup>	2 Byte	rw			
16 (0x10)	Vendor Name	String	18 Byte	ro	SICK AG		
17 (0x11)	Vendor Text	String	64 Byte	ro	www.sick.com		
18 (0x12)	Product Name	String	18 Byte	ro			
19 (0x13)	Product ID	String	32 Byte	ro			See row below ISDU 219
20 (0x14)	Product Text	String	45 Byte	ro			
21 (0x15)	Serial Number	String	8 Byte	ro			
22 (0x16)	Hardware Version	String	4 Byte	ro	1.0		
23 (0x17)	Firmware Version	String	16 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	
40 (0x28)	Process Data Input	PD In	8 Byte	ro			
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	8 Byte	ro		Unsigned Integer16 [4]	
14 (0x0E)	PDInput Descriptor	Array	9 Byte	ro		Octet String [3]	
15 (0x0F)	PDOutput Descriptor	Array	3 Byte	ro		Octet String [1]	
64 (0x40)	Device Specific Tag	String	32 Byte	rw	*****		

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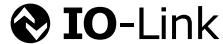
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SICK device specific							
Index dec (hex)	Name	Format (Offset)	Length	Access <sup>1</sup>	Default Value	Value / Range	Remark [Unit]
91 (0x5B)	IO-Link port output type pin 4	UInt	8 Bit	rw	0	0 = PNP 2 = Push/Pull 3 = Deactivated	
92 (0x5C)	IO-Link port output type pin 2	UInt	8 Bit	rw	0	0 = PNP 2 = Push/Pull 3 = Deactivated	
120 (0x78)	Process data select	UInt	8 Bit	rw	128	128 = PDOOut option 1 (IL1...IL16) 129 = PDOOut Option 2 (Analog value)	
204 (0xCC)	Find me	UInt	8 Bit	rw	0	0 = Find me deactivated 1 = Find me activated	When activated, IO-Link LED (green LED of the Power Port) will flash with 1Hz.
205 (0xCD)	SICK-Profile Version	String	4 Byte	ro	1.01		
219 (0xDB)	Article No.	Record	7 Byte	ro			
1 (0x01)	Article No. IO-Link device	Bit (0)	7 Byte	ro			
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	Does not affect the event "DS_UPLOAD_REQ"
230 (0xE6)	Bluetooth	UInt	8 Bit	rw	0	0 = Bluetooth deactivated 1 = Bluetooth activated	
231 (0xE7)	MAC address filter	Record	49 Byte	rw			
1 (0x01)	Status	Bit (384)	1 Bit	rw	0	true = MAC address filter activated false = MAC address filter deactivated	
2 (0x02)	MAC address 1	Bit (288)	12 Byte	rw	000000000000		
3 (0x03)	MAC address 2	Bit (192)	12 Byte	rw	000000000000		
4 (0x04)	MAC address 3	Bit (96)	12 Byte	rw	000000000000		
5 (0x05)	MAC address 4	Bit (0)	12 Byte	rw	000000000000		
232 (0xE8)	Passkey	Record	7 Byte	rw			
1 (0x01)	Status	Bit (48)	1 Bit	rw	0	true = Passkey activated false = Passkey deactivated	
2 (0x02)	Passkey	Bit (0)	6 Byte	rw	000		
4005 (0xFA5)	DI/DO port configuration	Record <sup>3</sup>	2 Byte	rw			
1 (0x01)	Port 6 Pin 2	Bit (11)	1 Bit	rw	0	true = Digital Output false = Digital Input	
2 (0x02)	Port 6 Pin 4	Bit (10)	1 Bit	rw	0	true = Digital Output false = Digital Input	
3 (0x03)	Port 5 Pin 2	Bit (9)	1 Bit	rw	0	true = Digital Output false = Digital Input	
4 (0x04)	Port 5 Pin 4	Bit (8)	1 Bit	rw	0	true = Digital Output false = Digital Input	
5 (0x05)	Port 4 Pin 2	Bit (7)	1 Bit	rw	0	true = Digital Output false = Digital Input	
6 (0x06)	Port 4 Pin 4	Bit (6)	1 Bit	rw	0	true = Digital Output false = Digital Input	
7 (0x07)	Port 3 Pin 2	Bit (5)	1 Bit	rw	0	true = Digital Output false = Digital Input	
8 (0x08)	Port 3 Pin 4	Bit (4)	1 Bit	rw	0	true = Digital Output false = Digital Input	
9 (0x09)	Port 2 Pin 2	Bit (3)	1 Bit	rw	0	true = Digital Output false = Digital Input	
10 (0x0A)	Port 2 Pin 4	Bit (2)	1 Bit	rw	0	true = Digital Output false = Digital Input	
11 (0x0B)	Port 1 Pin 2	Bit (1)	1 Bit	rw	0	true = Digital Output false = Digital Input	
12 (0x0C)	Port 1 Pin 4	Bit (0)	1 Bit	rw	0	true = Digital Output false = Digital Input	
4007 (0xFA7)	Logic Editor configuration (part 1)	OStr	228 Byte	rw			
4008 (0xFA8)	Logic Editor configuration (part 2)	OStr	228 Byte	rw			
4009 (0xFA9)	Logic Editor configuration (part 3)	OStr	228 Byte	rw			
4010 (0xFAA)	Logic Editor configuration (part 4)	OStr	228 Byte	rw			
4011 (0xFAB)	Logic Editor configuration (part 5)	OStr	228 Byte	rw			
4012 (0xFAC)	Logic Editor configuration (part 6)	OStr	228 Byte	rw			

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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]
4013 (OxFAD)	Logic Editor configuration (part 7)	OStr	228 Byte	rw			
4014 (OxFAE)	Logic Editor configuration size	UInt	16 Bit	rw			
4015 (OxFAF)	DI/DO port1 pin4 label	String	8 Byte	rw			pin label port 1 pin 4
4016 (OxFB0)	DI/DO port1 pin2 label	String	8 Byte	rw			pin label port 1 pin 2
4017 (OxFB1)	DI/DO port2 pin4 label	String	8 Byte	rw			pin label port 2 pin 4
4018 (OxFB2)	DI/DO port2 pin2 label	String	8 Byte	rw			pin label port 2 pin 2
4019 (OxFB3)	DI/DO port3 pin4 label	String	8 Byte	rw			pin label port 3 pin 4
4020 (OxFB4)	DI/DO port3 pin2 label	String	8 Byte	rw			pin label port 3 pin 2
4021 (OxFB5)	DI/DO port4 pin4 label	String	8 Byte	rw			pin label port 4 pin 4
4022 (OxFB6)	DI/DO port4 pin2 label	String	8 Byte	rw			pin label port 4 pin 2
4023 (OxFB7)	DI/DO port5 pin4 label	String	8 Byte	rw			pin label port 5 pin 4
4024 (OxFB8)	DI/DO port5 pin2 label	String	8 Byte	rw			pin label port 5 pin 2
4025 (OxFB9)	DI/DO port6 pin4 label	String	8 Byte	rw			pin label port 6 pin 4
4026 (OxFBA)	DI/DO port6 pin2 label	String	8 Byte	rw			pin label port 6 pin 2
4030 (OxFBE)	Application Version	String	16 Byte	ro	0.0.0		

Standard command					
Index dec (hex)		Access <sup>1</sup>	Value	Name	Remark [Unit]
2 (Ox02)	Standard Command	wo	128	Device Reset	
			130	Restore Factory Settings	

Events				
Code dec (hex)	Name	Type		Remark [Unit]
4096 (Ox1000)	General malfunction	Error		Unknown error
36001 (Ox8CA1)	New parameters	Notification		Parameters have been changed

Error				
Code dec (hex)	Additional Code	Name		Remark [Unit]
128 (Ox80)	17 (Ox11)	Index not available		Access occurs to a not existing index
128 (Ox80)	18 (Ox12)	Subindex not available		Access occurs to a not existing subindex
128 (Ox80)	32 (Ox20)	Service temporarily not available		Parameter is not accessible due to the current state of the device application
128 (Ox80)	34 (Ox22)	Service temporarily not available - device control		Parameter is not accessible due to a remote triggered state of the device application
128 (Ox80)	35 (Ox23)	Access denied		Write access on a read-only parameter
128 (Ox80)	48 (Ox30)	Parameter value out of range		Written parameter value is outside its permitted value range
128 (Ox80)	51 (Ox33)	Parameter length overrun		Written parameter length is above its predefined length
128 (Ox80)	52 (Ox34)	Parameter length underrun		Written parameter length is below its predefined length
128 (Ox80)	53 (Ox35)	Function not available		Written command is not supported by the device application
128 (Ox80)	54 (Ox36)	Function temporarily unavailable		Written command is not available due to the current state of the device application
128 (Ox80)	65 (Ox41)	Inconsistent parameter set		Parameter inconsistencies were found at the end of block parameter transfer, device plausibility check failed

<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