

SICK

8024780 1019

deTem A/P
8389170
4292516784
9310988 1019 (1.1.0)

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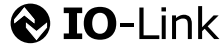
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Please note the validity of the additional operating instructions for automation functions

ENGLISH

1. Device features

Supported Smart Sensor Profile Function Classes	none (Smart Sensor Profile not supported)
Supported IO-Link Time Stamp Profile modes	none (IO-Link Time Stamp Profile not supported)
Block Parameter Transmission	not supported
Data Storage functionality	supported
Access Locks (supported / modes)	Data Storage

2. 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	6.2 ms
Baudrate ²	COM2
Process Data Length (IN)	4 Byte
Process Data Length (OUT)	1 Byte
I/O version	V1.0.0
Valid for IO-Link version	1.1.0

3. Process data

Record: 4 Byte

Bitoffset	24	16	8	0
Byte/Name	see "PD IN0"	see "PD IN1"	see "PD IN2"	see "PD IN3"
Type/Subindex	1	9	17	20

Reference: *PD IN0

Bitoffset	31	30	29	28	27	26	25	24
Byte 0	EdmWarning	EdmActive	ResetWarning	ResOvrActive	ResetRequired	WeakSignal	BeamState	SystemOssdActive
Type/Subindex	8	7	6	5	4	3	2	1

Reference: *PD IN1

Bitoffset	23	22	21	20	19	18	17	16
Byte 1	MutingSignal2	MutingSignal1	BeamsFreeAlterOverride	OverrideRequired	OverrideActive	MutingError	MutingObject	MutingActive
Type/Subindex	16	15	14	13	12	11	10	9

Reference: *PD IN2

Bitoffset	15	10	8
Byte 2	StateNormal	Reserved	Reserved
Type/Subindex	19	Unsigned Integer 5	18

Reference: *PD IN3

Bitoffset	4	3	2	1	0
Byte 3	Reserved	StatusBeam4	StatusBeam3	StatusBeam2	StatusBeam1
Type/Subindex	24	23	22	21	20

Record: 1 Byte

Bitoffset	0
Byte/Name	see "PD OUT0"
Type/Subindex	1

Reference: *PD OUT0

Bitoffset	4	0
Byte 0	reserved	ExternalDisplayControl
Type/Subindex	3	Unsigned Integer 4

4. Service data

The following ISDUs will not be saved via Data-Storage: Direct Parameters 1, Direct Parameters 2, Device Access Locks, Device Specific Tag, ErrorHistory_00, ErrorHistory_01, ErrorHistory_02, ErrorHistory_03, ErrorHistory_04, ErrorHistory_05, ErrorHistory_06, ErrorHistory_07, ErrorHistory_08, ErrorHistory_09, ErrorHistory_10, ErrorHistory_11, ErrorHistory_12, ErrorHistory_13, ErrorHistory_14, ErrorHistory_15, ErrorHistory_16, ErrorHistory_17, ErrorHistory_18, ErrorHistory_19, DeviceIdent, SwOffEvent_00, SwOffEvent_01, SwOffEvent_02, SwOffEvent_03, SwOffEvent_04, SwOffEvent_05, SwOffEvent_06, SwOffEvent_07, SwOffEvent_08 and SwOffEvent_09

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			
16 (0x10)	Vendor Name	String	64 Byte	ro	SICK AG		
18 (0x12)	Product Name	String	64 Byte	ro	Typekey of the device which is connected to the IO-Link master port via the IO-Link connector.		
19 (0x13)	Product ID	String	64 Byte	ro	SICK mio number of the device which is connected to the IO-Link master port via the IO-Link connector.		
20 (0x14)	Product Text	String	64 Byte	ro	deTem A/P		
21 (0x15)	Serial Number	String	16 Byte	ro	Serial number of the device which is connected to the IO-Link master port via the IO-Link connector.		
22 (0x16)	Hardware Version	String	64 Byte	ro	Hardware version of the device which is connected to the IO-Link master port via the IO-Link connector.		
23 (0x17)	Firmware Version	String	64 Byte	ro	Firmware version of the device which is connected to the IO-Link master port via the IO-Link connector.		
24 (0x18)	Application Specific Tag	String	32 Byte	rw	***		

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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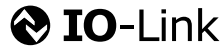
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IO-Link specific							
Index dec (hex)	Name	Format (Offset)	Length	Access ¹	Default Value	Value / Range	Remark [Unit]
36 (0x24)	Device Status	UInt	8 Bit	ro	0 = Device is OK 1 = Maintenance required 2 = Out of specification 3 = Functional check 4 = Failure 5...255 = Reserved	Device status of the device which is connected to the IO-Link master port via the IO-Link connector.	
40 (0x28)	Process Data Input	PD In	4 Byte	ro			
41 (0x29)	Process Data Output	PD Out	1 Byte	ro			

SICK device specific							
Index dec (hex)	Name	Format (Offset)	Length	Access ¹	Default Value	Value / Range	Remark [Unit]
64 (0x40)	Device Specific Tag	String	32 Byte	rw	***		
190 (0xBE)	OperatingHoursCounter	UInt	32 Bit	ro		Incremented after every operating hour and once after each power-up (non-volatile counter)	
219 (0xDB)	SICK Mio Number	Record	7 Byte	ro		SICK mio numbers of the device which is connected to the IO-Link master port via the IO-Link connector.	
8817 (0x2271)	ConfStatus	Record	12 Byte	ro		Configuration Status	
8827 (0x227B)	SystemErrorDiag	Record	36 Byte	ro		Diagnosis Information of the device	
8831 (0x227F)	SupplyVoltage	UInt	16 Bit	ro	0	Supply voltage in mV	
9090 (0x2382)	ErrorHistory_00	Record	36 Byte	ro		Error History Element 0	
9091 (0x2383)	ErrorHistory_01	Record	36 Byte	ro		Error History Element 1	
9092 (0x2384)	ErrorHistory_02	Record	36 Byte	ro		Error History Element 2	
9093 (0x2385)	ErrorHistory_03	Record	36 Byte	ro		Error History Element 3	
9094 (0x2386)	ErrorHistory_04	Record	36 Byte	ro		Error History Element 4	
9095 (0x2387)	ErrorHistory_05	Record	36 Byte	ro		Error History Element 5	
9096 (0x2388)	ErrorHistory_06	Record	36 Byte	ro		Error History Element 6	
9097 (0x2389)	ErrorHistory_07	Record	36 Byte	ro		Error History Element 7	
9098 (0x238A)	ErrorHistory_08	Record	36 Byte	ro		Error History Element 8	
9099 (0x238B)	ErrorHistory_09	Record	36 Byte	ro		Error History Element 9	
9100 (0x238C)	ErrorHistory_10	Record	36 Byte	ro		Error History Element 10	
9101 (0x238D)	ErrorHistory_11	Record	36 Byte	ro		Error History Element 11	
9102 (0x238E)	ErrorHistory_12	Record	36 Byte	ro		Error History Element 12	
9103 (0x238F)	ErrorHistory_13	Record	36 Byte	ro		Error History Element 13	
9104 (0x2390)	ErrorHistory_14	Record	36 Byte	ro		Error History Element 14	
9105 (0x2391)	ErrorHistory_15	Record	36 Byte	ro		Error History Element 15	
9106 (0x2392)	ErrorHistory_16	Record	36 Byte	ro		Error History Element 16	
9107 (0x2393)	ErrorHistory_17	Record	36 Byte	ro		Error History Element 17	
9108 (0x2394)	ErrorHistory_18	Record	36 Byte	ro		Error History Element 18	
9109 (0x2395)	ErrorHistory_19	Record	36 Byte	ro		Error History Element 19	
9145 (0x23B9)	Deviceldent	Record	54 Byte	ro		Device Identification	
9180 (0x23DC)	SwOffEvent_00	Record	36 Byte	ro		Switch-off Event 0	
9181 (0x23DD)	SwOffEvent_01	Record	36 Byte	ro		Switch-off Event 1	
9182 (0x23DE)	SwOffEvent_02	Record	36 Byte	ro		Switch-off Event 2	
9183 (0x23DF)	SwOffEvent_03	Record	36 Byte	ro		Switch-off Event 3	
9184 (0x23E0)	SwOffEvent_04	Record	36 Byte	ro		Switch-off Event 4	
9185 (0x23E1)	SwOffEvent_05	Record	36 Byte	ro		Switch-off Event 5	
9186 (0x23E2)	SwOffEvent_06	Record	36 Byte	ro		Switch-off Event 6	
9187 (0x23E3)	SwOffEvent_07	Record	36 Byte	ro		Switch-off Event 7	
9188 (0x23E4)	SwOffEvent_08	Record	36 Byte	ro		Switch-off Event 8	
9189 (0x23E5)	SwOffEvent_09	Record	36 Byte	ro		Switch-off Event 9	
9820 (0x265C)	DeviceData	Record	20 Byte	ro		Device Data	
9823 (0x265F)	WeakStatus	Record	1 Byte	ro		1 Bit weak signal information for each beam	
9824 (0x2660)	BeamAlignment	Record	2 Byte	ro		2 Bit alignment information for each beam	
9825 (0x2661)	AlignmentQuality	Record	1 Byte	ro		Alignment quality equivalent to alignment display	
9826 (0x2662)	DeviceTimes	Record	16 Byte	ro		Device Times	

Standard command						
Index dec (hex)	Name	Access ¹	Value	Name	Value	Remark [Unit]
2 (0x02)	Standard Command	wo	130	Restore Factory Settings		

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