

# SICK

8021105 ZLY5

## KTS/KTX

2539422540  
9265565 0517 (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 the master port's max. output power current.

SIO Modus	yes
Min Cycle Time	2.3 ms
Baudrate <sup>2</sup>	COM2
Process Data Length	2 Byte
IODD version	V1.0.838
Valid for IO-Link version	1.1.0

## 2. Process data

PD\_StandardMode  
Record: 2 Byte - Process Data In

Bitoffset										
Byte 0	Measurement Value of Emission Color	15	14	13	12	11	10	9	8	
Type/Subindex	Unsigned Integer 10									
Bitoffset										
Byte 1	Measurement Value of Emission Color	7	6	Emission Color	5	4	3	2	1	0
Type/Subindex	Unsigned Integer 10	4	Unsigned Integer 3	3	Boolean	2	Boolean	1	Boolean	1

## 3. Service data

The following ISDUs will not be saved via Data-Storage: Direct Parameters 1, Direct Parameters 2, Qint.1 SP1/SP2, Device specific name, Show RGB values, Sender configuration, Find me, Job assurance, System status and Notification handling

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	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			
16 (0x10)	Vendor Name	String	7 Byte	ro	SICK AG		
17 (0x11)	Vendor Text	String	64 Byte	ro	<a href="http://www.sick.com">www.sick.com</a>		
18 (0x12)	Product Name	String	30 Byte	ro			
19 (0x13)	Product ID	String	13 Byte	ro			
20 (0x14)	Product Text	String	64 Byte	ro	Contrast Sensor		
21 (0x15)	Serial Number	String	8 Byte	ro			
22 (0x16)	Hardware Version	String	4 Byte	ro			
23 (0x17)	Firmware Version	String	4 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	
40 (0x28)	Process Data Input	PD In	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	Record	12 Byte	ro			Information about supported profiles and functionalities

<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

SICK device specific							
Index dec (hex)	Name	Format (Offset)	Length	Access <sup>1</sup>	Default Value	Value / Range	Remark [Unit]
(0x0D)							
1 (0x01)	Smart Sensor Profile	Bit (80)	16 Bit	ro	1		
2 (0x02)	Identification	Bit (64)	16 Bit	ro	32768		
3 (0x03)	BDC Binary data channel	Bit (48)	16 Bit	ro	32769		
4 (0x04)	PDV Process data variable	Bit (32)	16 Bit	ro	32770		
5 (0x05)	Diagnosis	Bit (16)	16 Bit	ro	32771		
6 (0x06)	Teach-in	Bit (0)	16 Bit	ro	32772		
14 (0x0E)	PD Input Descriptor	Record	6 Byte	ro			Generic description of the process data content
1 (0x01)	PVInD (BDC1)	Bit (24)	3 Byte	ro			
2 (0x02)	PVInD (PDV1)	Bit (0)	3 Byte	ro			
58 (0x3A)	Teach-in channel	UInt	8 Bit	rw		0 = default (Qint.1)	Only 1 Teach-channel available
59 (0x3B)	Teach-in status	UInt	8 Bit	ro	0		0 = Ready; 4 = Waiting for a command (dynamic teach is running); 7 = Teach error; 17 = Teach-in successful (1-Point Teach-in); 21 = Busy, 1-Point Teach-in successful; 49 = Teach-in successful (2-Point, dynamic Teach-in)
60 (0x3C)	Qint.1 SP1/SP2	Record	2 Byte	rw			No change of mode possible via this ISDU. Only adaption of the threshold in KT-Mode. The threshold will be set back to 50% after a new Teach-in.
1 (0x01)	Setpoint SP1 in % between mark and background	Bit (8)	8 Bit	rw	50	-3 = CS-mode -2 = Auto-mode -1 = Threshold below minimum teach contrast 0...100 = Threshold in percent between minimum and maximum teach contrast 101 = Threshold above the maximum teach contrast	
2 (0x02)	Setpoint SP2	Bit (0)	8 Bit	rw		0 = default	Not relevant
61 (0x3D)	Qint.1 configuration	Record	4 Byte	rw			
1 (0x01)	Switchpoint logic / Inversion	Bit (24)	8 Bit	rw	128	0 = Fix dark switching 1 = Fix light switching 128 = Defined by teach / Input	
2 (0x02)	Switchpoint mode / Operating mode	Bit (16)	8 Bit	rw	1	1 = Single point mode / KT-mode (2-Point and dynamic Teach-in) 128 = Vendor specific window mode / CS-mode (1-Point Teach-in) 129 = Vendor specific single point mode / Auto-mode (Auto Teach-in)	Sensor operating mode will be adapted automatically according to the Teach-in type. It is recommended to use the Teach-in commands to change the operating mode.
3 (0x03)	Switchpoint hysteresis	Bit (0)	16 Bit	rw	0	0 = Vendor specific default	Not relevant
64 (0x40)	Device specific name	String	32 Byte	rw			
71 (0x47)	Show RGB values	UInt	8 Bit	rw	0	0 = RGB Measurement monitoring mode inactive 1 = RGB Measurement monitoring mode active	Only for contrast analysis. No switching signal during active RGB Mode
73 (0x49)	Sensitivity	UInt	8 Bit	rw	3	0 = Fine 1 = Middle 2 = Coarse 3 = Auto	Used in Auto-mode, CS-mode and dynamic Teach-in. Auto = according to Pin2/5
75 (0x4B)	Automatic drift correction	UInt	8 Bit	rw	1	0 = Deactivated 1 = Activated	Automatic threshold adaption to compensate contamination
80 (0x50)	Output inversion	UInt	8 Bit	ro		0 = Dark switching 1 = Light switching	Only for reading the status in case of switchpoint logic = "defined by Teach-in / Input"
82 (0x52)	Teach data	OStr	25 Byte	rw			Teach Data is part of the job assurance. This ISDU is only relevant for the data storage mechanism.
97 (0x61)	Sender configuration	UInt	8 Bit	rw	0	0 = Sensor active 1 = Sender not active	No measurement with inactive sender possible
114 (0x72)	Quality of teach	UInt	8 Bit	ro		0...100 = Quality level in percent	

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116 (0x74)	Teach mode selection for external lines	Record	2 Byte	rw			To use Pin2/5 for Teach-in ISDU 121 / 122 has to be set up accordingly.
1 (0x01)	Teach mode pin 2	Bit (8)	8 Bit	rw	1	0 = 1-Point-Teach (CS-mode) 1 = 2-Point-Teach (KT-mode) 2 = Dynamic Teach (KT-mode)	
2 (0x02)	Teach mode pin 5	Bit (0)	8 Bit	rw	1	0 = 1-Point-Teach (CS-mode) 1 = 2-Point-Teach (KT-mode) 2 = Dynamic Teach (KT-mode)	
117 (0x75)	Display direction switch	UInt	8 Bit	rw	0	0 = Reading direction not turned 1 = Reading direction upside-down	
121 (0x79)	Pin 2 configuration	UInt	8 Bit	rw	48	0 = Deactivated 17 = External teach 18 = Light/Dark 19 = Fine/Coarse 20 = Blanking 32 = Switching Output Q 48 = Auto	Auto = dependent on last Teach-in variant
122 (0x7A)	Pin 5 configuration	UInt	8 Bit	rw	48	0 = Deactivated 17 = External teach 18 = Light/Dark 19 = Fine/Coarse 20 = Blanking 48 = Auto	Auto = dependent on last Teach-in variant
153 (0x99)	Temperature	Int	16 Bit	ro			Internal device temperature in °C
175 (0xAF)	Quality of run	UInt	8 Bit	ro		0...255 = Quality level in percent	
176 (0xB0)	Quality of run alarm threshold	UInt	8 Bit	rw		0...90 = Threshold position in percent	
177 (0xB1)	Quality of alignment	Int	8 Bit	ro		-1 = Quality of alignment not available 0...100 = Quality value in percent	
204 (0xCC)	Find me	UInt	8 Bit	rw	0	0 = Deactivated 1 = Yellow LED blinks with 1 Hz 16 = Yellow LED + Q (Pin 2) blink with 1 Hz	Only for identification purposes
205 (0xCD)	SICK-profile version	String	4 Byte	ro	1.01		Version of SICK internal profile
208 (0xD0)	Emission color	UInt	8 Bit	rw	3	0 = Fix Red 1 = Fix Green 2 = Fix Blue 3 = Defined by teach (auto)	
219 (0xDB)	Product ID	Record	7 Byte	ro			
1 (0x01)	Product ID IO-Link device	Bit (0)	7 Byte	ro			
222 (0xDE)	Job assurance	OStr	34 Byte	rw			Use system command 208 to activate a loaded job after it has been written. Use system command 209 before reading out a job.
226 (0xE2)	System status	UInt	8 Bit	ro		0 = Q not active 1 = Q active	Present state of Q
227 (0xE3)	Notification handling	UInt	8 Bit	rw	0	0 = All enabled 1 = All disabled	Enable / Disable generation of IO-Link events
1085 (0x43D)	Timer 1 mode	UInt	8 Bit	rw	0	0 = Deactivated 1 = Ton delay 2 = Toff delay 3 = Ton + Toff delay 4 = Impulse	
1087 (0x43F)	Timer 1 setup	UInt	16 Bit	rw	10	1...30000	
Standard command							
Index dec (hex)	Name	Access <sup>1</sup>	Value	Name	Remark [Unit]		
2 (0x02)	Standard Command	wo	65	1 Point teach: Teach point 1 (CS-mode)			
			67	2 Point teach: Teach point 1 / Mark (KT-mode)			
			68	2 Point teach: Teach point 2 / Background (KT-mode)			
			71	Start dynamic teach (KT-mode)			
			72	Stop dynamic teach (KT-mode)			

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<p><b>Australia</b> Phone +61 3 9457 0800</p> <p><b>Belgium/Luxembourg</b> Phone +32 (0)2 468 55 66</p> <p><b>Brazil</b> Phone +55 11 5215-4900</p> <p><b>Canada</b> Phone +1 905 771 14 44</p> <p><b>China</b> Phone +86 4000 121 000 +852 2353 6300</p> <p><b>Denmark</b> Phone +45 45 82 64 00</p> <p><b>Deutschland</b> Phone +49 211 5361 301</p> <p><b>España</b> Phone +34 93 480 31 00</p> <p><b>France</b> Phone +33 1 64 62 39 00</p> <p><b>Great Britain</b> Phone +44 (0)1727 831121</p> <p><b>India</b> Phone +91-22-4033 8333</p> <p><b>Israel</b> Phone +972-4-6801000</p> <p><b>Italia</b> Phone +39 02 27 43 41</p> <p><b>Japan</b> Phone +81 (03) 5309 2112</p> <p><b>Magyarország</b> Phone +36 1 371 2680</p> <p><b>Niederland</b> Phone +31 (0)30 229 25 44</p> <p>SICK AG, Erwin-Sick-Strasse 1, D.79183 Waldkirch</p>	<p><b>Osterreich</b> Phone +43 (0)22 36 62 28 8-0</p> <p><b>Norge</b> Phone +47 67 61 50 00</p> <p><b>Polka</b> Phone +48 22 837 40 50</p> <p><b>România</b> Phone +40 356 171 120</p> <p><b>Russia</b> Phone +7 495 775 09 30</p> <p><b>Schweiz</b> Phone +41 41 619 29 39</p> <p><b>Sveits</b> Phone +43 6744 3732</p> <p><b>Sveits</b> Phone +386 (0)147 69 990</p> <p><b>South Korea</b> Phone +82 2 786 6321/4</p> <p><b>Suomi</b> Phone +358 9 25 15 800</p> <p><b>Sverige</b> Phone +46 10 110 10 00</p> <p><b>Taiwan</b> Phone +886 2 2375-6288</p> <p><b>Türkiye</b> Phone +90 (216) 528 50 00</p> <p><b>United Arab Emirates</b> Phone +971 (0)4 5865 878</p> <p><b>USA/México</b> Phone +1 952 941 6780</p>
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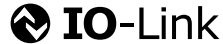
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Please note the validity of the additional operating instructions for automation functions

ENGLISH

Standard command				
Index dec (hex)	Access <sup>1</sup>	Value	Name	Remark [Unit]
		72	Stop dynamic teach (KT-mode)	
		79	Abort teach-in sequence	
		128	Device Reset	
		130	Restore Factory Settings	
		208	Restore / Activate job in ISDU 222	
		209	Renew / Update job in ISDU 222	

Events			
Code dec (hex)	Name	Type	Remark [Unit]
6144 (0x1800)	Teach-in failure	Notification	
6145 (0x1801)	Teach-in successful	Notification	
6147 (0x1803)	Hardware error	Error	Replace sensor
16912 (0x4210)	Device temperature over-run	Warning	Clear source of heat
36000 (0x8CA0)	Short circuit on outputs	Warning	Check wiring of sensor
36004 (0x8CA4)	Quality of run alarm	Warning	Clean sensor

4. Job Assurance

Job assurance allows to set, save and manage parameters for specific formats or recipes via IO-Link. The following overview shows the necessary ISDUs.

1. Job	Teach-in channel (58), Quint.1 SP1/SP2 (60), Quint.1 configuration (61), Sensitivity (73), Automatic drift correction (75), Teach data (82), Quality of run alarm threshold (176), Emission color (208)
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<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)