



8024161 1019  
9301631 1019  
**WI180C-IOA00**  
8389166  
3659054361  
9301630 1019 (1.1.0)

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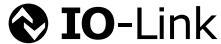
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Please note the validity of the additional operating instructions for automation functions

ENGLISH

1. 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	2.0 ms
Baudrate <sup>2</sup>	COM3
Process Data Length (IN)	16 Byte
IODD version	V1.0
Valid for IO-Link version	1.1.0

2. Process data

Record<sup>3</sup>: 16 Byte  
Condition: ISDU: Process data select, Index: 120, Subindex: 0, Value: 0

Bitoffset																	96
Byte 0	AO1 = Analog value 1	127	126	125	124	123	122	121	120								96
Type/Subindex	Integer 16																38
Bitoffset																	112
Byte 1	AO1 = Analog value 1	119	118	117	116	115	114	113	112								112
Type/Subindex	Integer 16																39
Bitoffset																	104
Byte 2	AO2 = Analog value 2	111	110	109	108	107	106	105	104								104
Type/Subindex	Integer 16																39
Bitoffset																	96
Byte 3	AO2 = Analog value 2	103	102	101	100	99	98	97	96								96
Type/Subindex	Integer 16																38
Bitoffset																	88
Byte 4	AO3 = Analog value 3	95	94	93	92	91	90	89	88								88
Type/Subindex	Integer 16																39
Bitoffset																	80
Byte 5	AO3 = Analog value 3	87	86	85	84	83	82	81	80								80
Type/Subindex	Integer 16																37
Bitoffset																	72
Byte 6	AO4 = Analog value 4	79	78	77	76	75	74	73	72								72
Type/Subindex	Integer 16																36
Bitoffset																	64
Byte 7	AO4 = Analog value 4	71	70	69	68	67	66	65	64								64
Type/Subindex	Integer 16																36
Bitoffset																	56
Byte 8	AO5 = Analog value 5	63	62	61	60	59	58	57	56								56
Type/Subindex	Integer 16																35
Bitoffset																	48
Byte 9	AO5 = Analog value 5	55	54	53	52	51	50	49	48								48
Type/Subindex	Integer 16																35
Bitoffset																	40
Byte 10																	40
Type/Subindex																	40
Bitoffset																	32
Byte 11																	32
Type/Subindex																	34
Bitoffset																	32
Byte 12	Module 15 Quint.2	31	Module 15 Quint.1	30	Module 14 Quint.2	29	Module 14 Quint.1	28	Module 13 Quint.2	27	Module 13 Quint.1	26	Module 12 Quint.2	25	Module 12 Quint.1	24	
Type/Subindex	Boolean	32	Boolean	31	Boolean	30	Boolean	29	Boolean	28	Boolean	27	Boolean	26	Boolean	25	

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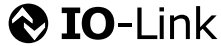
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Please note the validity of the additional operating instructions for automation functions

ENGLISH

Bitoffset	23	22	21	20	19	18	17	16
Byte 13	Module 11 Quint.2	Module 11 Quint.1	Module 10 Quint.2	Module 10 Quint.1	Module 9 Quint.2	Module 9 Quint.1	Module 8 Quint.2	Module 8 Quint.1
Type/Subindex	Boolean	Boolean	Boolean	Boolean	Boolean	Boolean	Boolean	Boolean

Bitoffset	15	14	13	12	11	10	9	8
Byte 14	Module 7 Quint.2	Module 7 Quint.1	Module 6 Quint.2	Module 6 Quint.1	Module 5 Quint.2	Module 5 Quint.1	Module 4 Quint.2	Module 4 Quint.1
Type/Subindex	Boolean	Boolean	Boolean	Boolean	Boolean	Boolean	Boolean	Boolean

Bitoffset	7	6	5	4	3	2	1	0
Byte 15	Module 3 Quint.2	Module 3 Quint.1	Module 2 Quint.2	Module 2 Quint.1	Module 1 Quint.2	Module 1 Quint.1	QL2	QL1
Type/Subindex	Boolean	Boolean	Boolean	Boolean	Boolean	Boolean	Boolean	Boolean

Record<sup>1</sup>: 16 Byte  
Condition: ISDU: Process data select, Index: 120, Subindex: 0, Value: 1

Bitoffset								
Byte 0	AO1 = Analog value 1	127	126	125	124	123	122	121
Type/Subindex	Integer 16							

Bitoffset								
Byte 1	AO1 = Analog value 1	119	118	117	116	115	114	113
Type/Subindex	Integer 16							

Bitoffset								
Byte 2	AO2 = Analog value 2	111	110	109	108	107	106	105
Type/Subindex	Integer 16							

Bitoffset								
Byte 3	AO2 = Analog value 2	103	102	101	100	99	98	97
Type/Subindex	Integer 16							

Bitoffset								
Byte 4	AO3 = Analog value 3	95	94	93	92	91	90	89
Type/Subindex	Integer 16							

Bitoffset								
Byte 5	AO3 = Analog value 3	87	86	85	84	83	82	81
Type/Subindex	Integer 16							

Bitoffset								
Byte 6	AO4 = Analog value 4	79	78	77	76	75	74	73
Type/Subindex	Integer 16							

Bitoffset								
Byte 7	AO4 = Analog value 4	71	70	69	68	67	66	65
Type/Subindex	Integer 16							

Bitoffset								
Byte 8	AO5 = Analog value 5	63	62	61	60	59	58	57
Type/Subindex	Integer 16							

Bitoffset								
Byte 9	AO5 = Analog value 5	55	54	53	52	51	50	49
Type/Subindex	Integer 16							

Bitoffset								
Byte 10	AO6 = Analog value 6	47	46	45	44	43	42	41
Type/Subindex	Integer 16							

Bitoffset								
Byte 11	AO6 = Analog value 6	39	38	37	36	35	34	33
Type/Subindex	Integer 16							

Bitoffset								
Byte 12	AO7 = Analog value 7	31	30	29	28	27	26	25
Type/Subindex	Integer 16							

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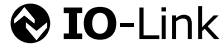
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ENGLISH

SICK device specific							
Index dec (hex)	Name	Format (Offset)	Length	Access <sup>1</sup>	Default Value	Value / Range	Remark [Unit]
58 (0x3A)	Teach-in channel	Uint	8 Bit	rw	0	0 = default Qint. = Module 1 Qint.1 1 = Module 1 Qint.1 2 = Module 1 Qint.2 3 = Module 2 Qint.1 4 = Module 2 Qint.2 5 = Module 3 Qint.1 6 = Module 3 Qint.2 7 = Module 4 Qint.1 8 = Module 4 Qint.2 9 = Module 5 Qint.1 10 = Module 5 Qint.2 11 = Module 6 Qint.1 12 = Module 6 Qint.2 13 = Module 7 Qint.1 14 = Module 7 Qint.2 15 = Module 8 Qint.1 16 = Module 8 Qint.2 17 = Module 9 Qint.1 18 = Module 9 Qint.2 19 = Module 10 Qint.1 20 = Module 10 Qint.2 21 = Module 11 Qint.1 22 = Module 11 Qint.2 23 = Module 12 Qint.1 24 = Module 12 Qint.2 25 = Module 13 Qint.1 26 = Module 13 Qint.2 27 = Module 14 Qint.1 28 = Module 14 Qint.2 29 = Module 15 Qint.1 30 = Module 15 Qint.2 31 = Module 16 Qint.1 32 = Module 16 Qint.2 253 = All Qint.1 254 = All Qint.2	
59 (0x3B)	Teach-in state	Record <sup>3</sup>	1 Byte	ro		false = Teachpoint 2 not taught true = Teachpoint 2 successfully taught	
1 (0x01)	Teach flag SP2	Bit (6)	1 Bit	ro		false = Teachpoint 2 not taught true = Teachpoint 2 successfully taught	
2 (0x02)	Teach flag SP1	Bit (4)	1 Bit	ro		false = Teachpoint 1 not taught true = Teachpoint 1 successfully taught	
3 (0x03)	Teach state	Bit (0)	4 Bit	ro		0 = IDLE 1 = SP1 SUCCESS 2 = SP2 SUCCESS 4 = WAIT FOR COMMAND 5 = BUSY 7 = ERROR	
64 (0x40)	Device / function name	String	32 Byte	rw	*****		
67 (0x43)	Process data user definition	Record	7 Byte	rw			
1 (0x01)	User defined value for AO 1	Bit (48)	8 Bit	rw	0	0 = No function / empty 1 = Current receiver level live Module 1 2 = Current receiver level live Module 2 3 = Current receiver level live Module 3 4 = Current receiver level live Module 4 5 = Current receiver level live Module 5 6 = Current receiver level live Module 6 7 = Current receiver level live Module 7 8 = Current receiver level live Module 8 9 = Current receiver level live Module 9 10 = Current receiver level live Module 10 11 = Current receiver level live Module 11 12 = Current receiver level live Module 12 13 = Current receiver level live Module 13 14 = Current receiver level live Module 14 15 = Current receiver level live Module 15 16 = Current receiver level live Module 16	

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<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]
2 (0x02)	User defined value for AO 2	Bit (40)	8 Bit	rw	0	0 = No function / empty 1 = Current receiver level live Module 1 2 = Current receiver level live Module 2 3 = Current receiver level live Module 3 4 = Current receiver level live Module 4 5 = Current receiver level live Module 5 6 = Current receiver level live Module 6 7 = Current receiver level live Module 7 8 = Current receiver level live Module 8 9 = Current receiver level live Module 9 10 = Current receiver level live Module 10 11 = Current receiver level live Module 11 12 = Current receiver level live Module 12 13 = Current receiver level live Module 13 14 = Current receiver level live Module 14 15 = Current receiver level live Module 15 16 = Current receiver level live Module 16	
3 (0x03)	User defined value for AO 3	Bit (32)	8 Bit	rw	0	0 = No function / empty 1 = Current receiver level live Module 1 2 = Current receiver level live Module 2 3 = Current receiver level live Module 3 4 = Current receiver level live Module 4 5 = Current receiver level live Module 5 6 = Current receiver level live Module 6 7 = Current receiver level live Module 7 8 = Current receiver level live Module 8 9 = Current receiver level live Module 9 10 = Current receiver level live Module 10 11 = Current receiver level live Module 11 12 = Current receiver level live Module 12 13 = Current receiver level live Module 13 14 = Current receiver level live Module 14 15 = Current receiver level live Module 15 16 = Current receiver level live Module 16	
4 (0x04)	User defined value for AO 4	Bit (24)	8 Bit	rw	0	0 = No function / empty 1 = Current receiver level live Module 1 2 = Current receiver level live Module 2 3 = Current receiver level live Module 3 4 = Current receiver level live Module 4 5 = Current receiver level live Module 5 6 = Current receiver level live Module 6 7 = Current receiver level live Module 7 8 = Current receiver level live Module 8 9 = Current receiver level live Module 9 10 = Current receiver level live Module 10 11 = Current receiver level live Module 11 12 = Current receiver level live Module 12 13 = Current receiver level live Module 13 14 = Current receiver level live Module 14 15 = Current receiver level live Module 15 16 = Current receiver level live Module 16	
5 (0x05)	User defined value for AO 5	Bit (16)	8 Bit	rw	0	0 = No function / empty 1 = Current receiver level live Module 1 2 = Current receiver level live Module 2 3 = Current receiver level live Module 3 4 = Current receiver level live Module 4 5 = Current receiver level live Module 5 6 = Current receiver level live Module 6 7 = Current receiver level live Module 7 8 = Current receiver level live Module 8 9 = Current receiver level live Module 9 10 = Current receiver level live Module 10 11 = Current receiver level live Module 11 12 = Current receiver level live Module 12 13 = Current receiver level live Module 13 14 = Current receiver level live Module 14 15 = Current receiver level live Module 15 16 = Current receiver level live Module 16	



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<b>Canada</b> Phone +1 905 771 14 44	<b>România</b> Phone +40 356 171 120
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<b>Italy</b> Phone +39 02 27 43 41	<b>United Arab Emirates</b> Phone +971 (0) 4 5865 878
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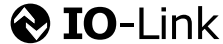
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ENGLISH

SICK device specific							
Index dec (hex)	Name	Format (Offset)	Length	Access <sup>1</sup>	Default Value	Value / Range	Remark [Unit]
6 (0x06)	User defined value for AO 6	Bit (8)	8 Bit	rw	0	0 = No function / empty 1 = Current receiver level live Module 1 2 = Current receiver level live Module 2 3 = Current receiver level live Module 3 4 = Current receiver level live Module 4 5 = Current receiver level live Module 5 6 = Current receiver level live Module 6 7 = Current receiver level live Module 7 8 = Current receiver level live Module 8 9 = Current receiver level live Module 9 10 = Current receiver level live Module 10 11 = Current receiver level live Module 11 12 = Current receiver level live Module 12 13 = Current receiver level live Module 13 14 = Current receiver level live Module 14 15 = Current receiver level live Module 15 16 = Current receiver level live Module 16	
7 (0x07)	User defined value for AO 7	Bit (0)	8 Bit	rw	0	0 = No function / empty 1 = Current receiver level live Module 1 2 = Current receiver level live Module 2 3 = Current receiver level live Module 3 4 = Current receiver level live Module 4 5 = Current receiver level live Module 5 6 = Current receiver level live Module 6 7 = Current receiver level live Module 7 8 = Current receiver level live Module 8 9 = Current receiver level live Module 9 10 = Current receiver level live Module 10 11 = Current receiver level live Module 11 12 = Current receiver level live Module 12 13 = Current receiver level live Module 13 14 = Current receiver level live Module 14 15 = Current receiver level live Module 15 16 = Current receiver level live Module 16	
120 (0x78)	Process data select	UInt	8 Bit	rw	0	0 = 5 AO out of 16 modules 1 = 7 AO out of 7 modules	
121 (0x79)	Pin 2 configuration	UInt	8 Bit	rw	40	0 = Deactivated / no function 1 = External input (Smart Task) 17 = Teach-in 34 = Switching signal QL2 35 = Detection output Module 1 Qint.1 36 = Detection output Module 1 Qint.2 39 = Switching signal QL1 40 = Switching signal QL1/	
153 (0x99)	Temperature	Record <sup>3</sup>	1 Byte	ro			
1 (0x01)	Current temperature	Bit (0)	8 Bit	ro	0	-127...127	[°C]
190 (0xBE)	Operating hours	Record <sup>3</sup>	4 Byte	ro			
1 (0x01)	Total operating hours	Bit (0)	32 Bit	ro		0...1000000	[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			
219 (0xDB)	Article No. all components	Record	39 Byte	ro			
1 (0x01)	Article No. WI IO-Link Gateway	Bit (256)	7 Byte	ro	6071650		
2 (0x02)	Article no. of module 1	Bit (240)	16 Bit	ro	4353	0 = --- 4353 = WLL180T (1 output) 4354 = WLL180T (2 outputs) 4369 = KTL180 (1 output) 4370 = KTL180 (2 outputs) 4865 = OD1 (15mm model) on AOD1 4866 = OD1 (35mm model) on AOD1 4867 = OD1 (100mm model) on AOD1 4897 = OL1 on AOD1 5376 = Empty AOD1 channel 65535 = ERROR	
3 (0x03)	Article no. of module 2	Bit (224)	16 Bit	ro	4354	0 = --- 4353 = WLL180T (1 output) 4354 = WLL180T (2 outputs) 4369 = KTL180 (1 output) 4370 = KTL180 (2 outputs) 4865 = OD1 (15mm model) on AOD1 4866 = OD1 (35mm model) on AOD1 4867 = OD1 (100mm model) on AOD1 4897 = OL1 on AOD1 5376 = Empty AOD1 channel 65535 = ERROR	

<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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Index dec (hex)	Name	Format (Offset)	Length	Access <sup>1</sup>	Default Value	Value / Range	Remark [Unit]
4 (0x04)	Article no. of module 3	Bit (208)	16 Bit	ro	4369	0 = -- 4353 = WLL180T (1 output) 4354 = WLL180T (2 outputs) 4369 = KTL180 (1 output) 4370 = KTL180 (2 outputs) 4865 = OD1 (15mm model) on AOD1 4866 = OD1 (35mm model) on AOD1 4867 = OD1 (100mm model) on AOD1 4897 = OL1 on AOD1 5376 = Empty AOD1 channel 65535 = ERROR	
5 (0x05)	Article no. of module 4	Bit (192)	16 Bit	ro	4370	0 = -- 4353 = WLL180T (1 output) 4354 = WLL180T (2 outputs) 4369 = KTL180 (1 output) 4370 = KTL180 (2 outputs) 4865 = OD1 (15mm model) on AOD1 4866 = OD1 (35mm model) on AOD1 4867 = OD1 (100mm model) on AOD1 4897 = OL1 on AOD1 5376 = Empty AOD1 channel 65535 = ERROR	
6 (0x06)	Article no. of module 5	Bit (176)	16 Bit	ro	4865	0 = -- 4353 = WLL180T (1 output) 4354 = WLL180T (2 outputs) 4369 = KTL180 (1 output) 4370 = KTL180 (2 outputs) 4865 = OD1 (15mm model) on AOD1 4866 = OD1 (35mm model) on AOD1 4867 = OD1 (100mm model) on AOD1 4897 = OL1 on AOD1 5376 = Empty AOD1 channel 65535 = ERROR	
7 (0x07)	Article no. of module 6	Bit (160)	16 Bit	ro	4866	0 = -- 4353 = WLL180T (1 output) 4354 = WLL180T (2 outputs) 4369 = KTL180 (1 output) 4370 = KTL180 (2 outputs) 4865 = OD1 (15mm model) on AOD1 4866 = OD1 (35mm model) on AOD1 4867 = OD1 (100mm model) on AOD1 4897 = OL1 on AOD1 5376 = Empty AOD1 channel 65535 = ERROR	
8 (0x08)	Article no. of module 7	Bit (144)	16 Bit	ro	4867	0 = -- 4353 = WLL180T (1 output) 4354 = WLL180T (2 outputs) 4369 = KTL180 (1 output) 4370 = KTL180 (2 outputs) 4865 = OD1 (15mm model) on AOD1 4866 = OD1 (35mm model) on AOD1 4867 = OD1 (100mm model) on AOD1 4897 = OL1 on AOD1 5376 = Empty AOD1 channel 65535 = ERROR	
9 (0x09)	Article no. of module 8	Bit (128)	16 Bit	ro	4897	0 = -- 4353 = WLL180T (1 output) 4354 = WLL180T (2 outputs) 4369 = KTL180 (1 output) 4370 = KTL180 (2 outputs) 4865 = OD1 (15mm model) on AOD1 4866 = OD1 (35mm model) on AOD1 4867 = OD1 (100mm model) on AOD1 4897 = OL1 on AOD1 5376 = Empty AOD1 channel 65535 = ERROR	
10 (0x0A)	Article no. of module 9	Bit (112)	16 Bit	ro	0	0 = -- 4353 = WLL180T (1 output) 4354 = WLL180T (2 outputs) 4369 = KTL180 (1 output) 4370 = KTL180 (2 outputs) 4865 = OD1 (15mm model) on AOD1 4866 = OD1 (35mm model) on AOD1 4867 = OD1 (100mm model) on AOD1 4897 = OL1 on AOD1 5376 = Empty AOD1 channel 65535 = ERROR	







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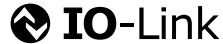
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227 (0xE3)	Notification handling	UInt	8 Bit	rw	0	0 = All enabled 1 = All disabled 2 = Events enabled, PD invalid flag disabled 3 = Events disabled, PD invalid flag enabled	
262 (0x106)	Module communication tunnel	Record	3 Byte	rw			
1 (0x01)	Module Number	Bit (16)	8 Bit	rw	1	1 = Module 1 2 = Module 2 3 = Module 3 4 = Module 4 5 = Module 5 6 = Module 6 7 = Module 7 8 = Module 8 9 = Module 9 10 = Module 10 11 = Module 11 12 = Module 12 13 = Module 13 14 = Module 14 15 = Module 15 16 = Module 16	
2 (0x02)	Module Address	Bit (8)	8 Bit	rw	0		
3 (0x03)	Data Length	Bit (0)	8 Bit	rw	0	0...32	
263 (0x107)	Module data	Record	35 Byte	rw			
1 (0x01)	Data	Bit (24)	32 Byte	rw			
2 (0x02)	Module Number Readback	Bit (16)	8 Bit	rw			
3 (0x03)	Module Address Readback	Bit (8)	8 Bit	rw			
4 (0x04)	Data Length Readback	Bit (0)	8 Bit	rw			
269 (0x10D)	Module process data	Array	64 Byte	ro		Unsigned Integer32 [16]	
270 (0x10E)	Module count	UInt	8 Bit	ro	8	0...16	
1080 (0x438)	SLTI Version	String	8 Byte	ro			
1081 (0x439)	Input selector 1	UInt	8 Bit	rw	0	0 = Module 1 Qint.1 1 = Module 1 Qint.2 2 = Module 2 Qint.1 3 = Module 2 Qint.2 4 = Module 3 Qint.1 5 = Module 3 Qint.2 6 = Module 4 Qint.1 7 = Module 4 Qint.2 8 = Module 5 Qint.1 9 = Module 5 Qint.2 10 = Module 6 Qint.1 11 = Module 6 Qint.2 12 = Module 7 Qint.1 13 = Module 7 Qint.2 14 = Module 8 Qint.1 15 = Module 8 Qint.2 16 = Module 9 Qint.1 17 = Module 9 Qint.2 18 = Module 10 Qint.1 19 = Module 10 Qint.2 20 = Module 11 Qint.1 21 = Module 11 Qint.2 22 = Module 12 Qint.1 23 = Module 12 Qint.2 24 = Module 13 Qint.1 25 = Module 13 Qint.2 26 = Module 14 Qint.1 27 = Module 14 Qint.2 28 = Module 15 Qint.1 29 = Module 15 Qint.2 30 = Module 16 Qint.1 31 = Module 16 Qint.2 64 = Ext.input 1	



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9301631 1019  
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8389166  
3659054361  
9301630 1019 (1.1.0)

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<b>Belgium/Luxembourg</b> Phone +32 (0)2 468 35 66	<b>Norge</b> Phone +47 67 61 50 00
<b>Brasil</b> Phone +55 11 3215-4900	<b>Polka</b> Phone +48 22 837 40 50
<b>Canada</b> Phone +1 805 771 14 44	<b>România</b> Phone +40 356 171 120
<b>China</b> Phone +86 4000 121 000 +852 2153 6300	<b>Russia</b> Phone +7 495 775 09 30
<b>Danmark</b> Phone +45 45 82 64 00	<b>Schweiz</b> Phone +41 41 619 29 39
<b>Deutschland</b> Phone +49 211 5301 301	<b>Slovenija</b> Phone +386 (0)147 69 990
<b>España</b> Phone +34 93 480 31 00	<b>South Africa</b> Phone +27 11 472 3733
<b>France</b> Phone +33 1 64 62 39 00	<b>South Korea</b> Phone +82 2 786 6321/4
<b>Great Britain</b> Phone +44 (0)1727 831121	<b>Spain</b> Phone +358 9 25 15 800
<b>India</b> Phone +91 22 4033 8333	<b>Sverige</b> Phone +46 10 110 10 00
<b>Israel</b> Phone +972 4 6801000	<b>Taiwan</b> Phone +886 2 2375 6288
<b>Italy</b> Phone +39 02 27 43 41	<b>Türkiye</b> Phone +90 (216) 528 50 00
<b>Japan</b> Phone +81 (03) 5309 2112	<b>United Arab Emirates</b> Phone +971 (0) 4 8665 878
<b>Magyarország</b> Phone +36 1 371 2680	<b>USA/Mexico</b> Phone +1 952 941 6780
<b>Niederland</b> Phone +31 (0)30 229 25 44	

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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]
1082 (0x43A)	Input selector 2	UInt	8 Bit	rw	64	0 = Module 1 Qint.1 1 = Module 1 Qint.2 2 = Module 2 Qint.1 3 = Module 2 Qint.2 4 = Module 3 Qint.1 5 = Module 3 Qint.2 6 = Module 4 Qint.1 7 = Module 4 Qint.2 8 = Module 5 Qint.1 9 = Module 5 Qint.2 10 = Module 6 Qint.1 11 = Module 6 Qint.2 12 = Module 7 Qint.1 13 = Module 7 Qint.2 14 = Module 8 Qint.1 15 = Module 8 Qint.2 16 = Module 9 Qint.1 17 = Module 9 Qint.2 18 = Module 10 Qint.1 19 = Module 10 Qint.2 20 = Module 11 Qint.1 21 = Module 11 Qint.2 22 = Module 12 Qint.1 23 = Module 12 Qint.2 24 = Module 13 Qint.1 25 = Module 13 Qint.2 26 = Module 14 Qint.1 27 = Module 14 Qint.2 28 = Module 15 Qint.1 29 = Module 15 Qint.2 30 = Module 16 Qint.1 31 = Module 16 Qint.2 64 = Ext.input 1	
1083 (0x43B)	Logic 1	UInt	8 Bit	rw	0	0 = DIRECT 1 = AND 2 = OR 3 = Window Mode 4 = Hysteresis	
1084 (0x43C)	Logic 2	UInt	8 Bit	rw	0	0 = DIRECT 1 = AND 2 = OR 3 = Window Mode 4 = Hysteresis	
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)	
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)	
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	
1093 (0x445)	Inverter Ext.input	UInt	8 Bit	rw	0	0 = not inverted 1 = inverted	
Standard command							
Index dec (hex)		Access <sup>1</sup>			Value	Name	Remark [Unit]
2 (0x02)	Standard Command	wo			65	Single value teach SP1	
					66	Single value teach SP2	
					130	Restore Factory Settings	
Events							
Code dec (hex)	Name	Type					Remark [Unit]
16912 (0x4210)	Device temperature over-run	Warning					Clear source of heat
16928 (0x4220)	Device temperature under-run	Warning					Insulate device
36000 (0x8CA0)	Short Circuit on Qx	Notification					Short circuit on outputs

<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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<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>Swiss</b> Phone +41 51 9215-4900</p> <p><b>Canada</b> Phone +1 905 771 14 44</p> <p><b>China</b> Phone +86 4000 121 000 +852 2163 6300</p> <p><b>Denmark</b> Phone +45 45 82 64 00</p> <p><b>Deutschland</b> Phone +49 211 5301 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 83121</p> <p><b>India</b> Phone +91-22-4033 8333</p> <p><b>Italy</b> Phone +39 02 27 43 41</p> <p><b>Japan</b> Phone +81 (03) 5309 2112</p> <p><b>Magyarország</b> Phone +36 1 271 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)32 36 62 28 8-0</p> <p><b>Norge</b> Phone +47 67 61 50 00</p> <p><b>Polska</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 05 30</p> <p><b>Schweiz</b> Phone +41 41 619 29 39</p> <p><b>Schweden</b> Phone +45 6744 3732</p> <p><b>Sveits</b> Phone +386 (0)147 69 990</p> <p><b>Taiwan</b> Phone +86 2 27 11 472 3733</p> <p><b>South Korea</b> Phone +82 2 786 6321/4</p> <p><b>Spain</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 5565 878</p> <p><b>USA/Mexico</b> Phone +1 952 941 6780</p>
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## ENGLISH

Events			
Code dec (hex)	Name	Type	Remark [Unit]
36001 (0x8CA1)	New parameters	Notification	Parameters have been changed
36005 (0x8CA5)	Teach / value out of specified range	Notification	Teach / distance value out of specified range
36012 (0x8CAC)	Invalid module order	Error	Module 1 ... 16 must follow the specified order (e.g. WLL180T - KTL180 - AOD1).
36013 (0x8CAD)	Module count changed	Error	Module count has changed since last power-up of the gateway device.
36014 (0x8CAE)	Invalid module connected	Error	An invalid / not compatible module has been connected to the gateway.
36016 (0x8CB0)	Module communication fault	Notification	Fault detected in communication between modules

Error			
Code dec (hex)	Additional Code	Name	Remark [Unit]
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)	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