



8027475 0922  
9357272 0922  
**WTM12L\_DID8389324**  
8389324  
287974047  
9357271 0922 (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 master port's max. output power current.

SIO Modus	yes
Min Cycle Time	2.3 ms
Baudrate <sup>2</sup>	COM2
Process Data Length (IN)	2 Byte
IODD version	V1.36111
Valid for IO-Link version	1.1.0

## 2. Process data

Record<sup>3</sup>: 2 Byte

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

Bitoffset																
Byte 0	Current receive level (live)	15	14	13	12	11	10	9	8							
Type/Subindex	Unsigned Integer 14															
Bitoffset																
Byte 1	Current receive level (live)	7	6	5	4	3	2	1	0	CL2	1	CL1	0			
Type/Subindex	Unsigned Integer 14											3	Boolean	2	Boolean	1

Unsigned Integer 16: 2 Byte

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

Bitoffset																
Byte 0	Distance to object [1/10mm]	15	14	13	12	11	10	9	8							
Type/Subindex	Unsigned Integer 16															
Bitoffset																
Byte 1		7	6	5	4	3	2	1	0							
Type/Subindex																

## 3. Service data

The following ISDUs will not be saved via Data-Storage: Profile characteristic, Teach-in channel, Teach-in state, Device specific tag, Sender configuration, Quality of teach, Temperature zone, Current receiver level (live), Find me, Distance to object and SLTI Version

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>3</sup>	2 Byte	rw			
2 (0x02)	Data Storage Lock	Bit (1)	1 Bit	rw	0	0 = unlocked 1 = locked	
4 (0x04)	Local User Interface Lock	Bit (3)	1 Bit	rw	0	0 = unlocked 1 = locked	
16 (0x10)	Vendor Name	String	7 Byte	ro	SICK AG		
17 (0x11)	Vendor Text	String	64 Byte	ro			
18 (0x12)	Product Name	String	18 Byte	ro			
19 (0x13)	Product ID	String	7 Byte	ro			
20 (0x14)	Product Text	String	45 Byte	ro			
21 (0x15)	Serial Number	String	8 Byte	ro			
22 (0x16)	Hardware Version	String	4 Byte	ro			
23 (0x17)	Firmware Version	String	19 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	
37 (0x25)	Detailed Device Status	Array <sup>3</sup>	6 Byte	ro		Octet String [2]	
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	Array <sup>3</sup>	12 Byte	ro		Unsigned Integer16 [6]	
14 (0x0E)	PDInput descriptor	Array <sup>3</sup>	6 Byte	ro		Octet String [2]	

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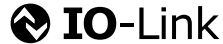
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Please note the validity of the additional operating instructions for automation functions

ENGLISH

SICK device specific							
Index dec (hex)	Name	Format (Offset)	Length	Access <sup>1</sup>	Default Value	Value / Range	Remark [Unit]
15 (0x0F)	PDOutput descriptor	Array <sup>3</sup>	3 Byte	ro		Octet String [1]	
58 (0x3A)	Teach-in channel	UInt	8 Bit	rw	0	0 = default Quint. = Quint.1 1 = Quint.1 2 = Quint.2	
59 (0x3B)	Teach-in state	Record <sup>3</sup>	1 Byte	ro			
1 (0x01)	Teach flag SP1 TP2	Bit (5)	1 Bit	ro		false = SP1 TP2 not taught or not successful true = SP1 TP2 successfully taught	
2 (0x02)	Teach flag SP1 TP1	Bit (4)	1 Bit	ro		false = SP1 TP1 not taught or not successful true = SP1 TP1 successfully taught	
3 (0x03)	Teach state	Bit (0)	4 Bit	ro		0 = IDLE 1 = SP1 SUCCESS 4 = WAIT FOR COMMAND 5 = BUSY 7 = ERROR	
60 (0x3C)	Qint.1 SP1 / SP2	Record	3 Byte	rw			
1 (0x01)	SP1 sensing range	Bit (8)	16 Bit	rw	89	89...1260	[mm]
2 (0x02)	SP2 sensing range	Bit (0)	8 Bit	rw	0	0 = SP2 not used	
61 (0x3D)	Qint.1 configuration	Record	4 Byte	rw			
1 (0x01)	Switchpoint logic	Bit (24)	8 Bit	rw	128	128 = Vendor specific	
2 (0x02)	Switchpoint mode	Bit (16)	8 Bit	rw	128	128 = Vendor specific	
3 (0x03)	Switchpoint hysteresis	Bit (0)	16 Bit	rw	0	0 = Autodefined hysteresis	
62 (0x3E)	Qint.2 SP1 / SP2	Record	3 Byte	rw			
1 (0x01)	SP1 sensing range	Bit (8)	16 Bit	rw	89	89...1260	[mm]
2 (0x02)	SP2 sensing range	Bit (0)	8 Bit	rw	0	0 = SP2 not used	
63 (0x3F)	Qint.2 configuration	Record	4 Byte	rw			
1 (0x01)	Switchpoint logic	Bit (24)	8 Bit	rw	128	128 = Vendor specific	
2 (0x02)	Switchpoint mode	Bit (16)	8 Bit	rw	128	128 = Vendor specific	
3 (0x03)	Switchpoint hysteresis	Bit (0)	16 Bit	rw	0	0 = Autodefined hysteresis	
64 (0x40)	Device specific tag	String	32 Byte	rw	*****		
83 (0x53)	Operation mode	UInt	8 Bit	rw	0	0 = BGS Quint.1, 1 point teach, AS 1 1 = BGS Quint.1, 1 point teach, AS 2 2 = BGS Quint.1, 2 point teach, AS 1 4 = BGS Quint.1 and Quint.2, 1 point teach, AS 1 6 = FGS Quint.1, 1 point teach, AS 1 16 = Distance measurement	BGS = Background suppression FGS = Foreground suppression AS = ApplicationSelect mode  Mode "Distance measurement" activates Process Data variant 2: "Distance to object"
90 (0x5A)	Teach-in offset	Int	8 Bit	rw	0	-100...100	[mm]
92 (0x5C)	Physical input / output type configuration pin2	UInt	8 Bit	rw	3	1 = PNP 2 = NPN 3 = Push/Pull	
97 (0x61)	Sender configuration	UInt	8 Bit	rw	0	0 = Sender active 1 = Sender not active	
114 (0x72)	Quality of teach	Record	2 Byte	ro			
1 (0x01)	Quality of teach Qint.1 SP1	Bit (8)	8 Bit	ro		0...100	[%]
2 (0x02)	Quality of teach Qint.2 SP1	Bit (0)	8 Bit	ro		0...100	[%]
120 (0x78)	Process data select	UInt	8 Bit	ro	0	0 = Switching signals 1 = Distance to object	Interdependency with index 83dec.
121 (0x79)	Pin 2 configuration	UInt	8 Bit	rw	40	0 = Deactivated / no function 1 = External input (Smart Task) 16 = Sender off 17 = Teach-in 34 = Switching signal QL2 35 = Detection output Qint.1 36 = Detection output Qint.2 39 = Switching signal QL1 40 = Switching signal QL1/	
154 (0x9A)	Temperature zone	UInt	8 Bit	ro		0 = Very cold 1 = Cold 2 = Moderate 3 = Warm 4 = Hot	Sensor-internal temperature
179 (0xB3)	Alarm thresholds for diagnostic parameters	Record	4 Byte	rw			
1 (0x01)	Operating hours threshold	Bit (0)	32 Bit	rw	40000	0...1000000	[h]
180 (0xB4)	Current receiver level (live)	UInt	16 Bit	ro		0...16383	
190 (0xBE)	Operating hours	Record	8 Byte	ro			

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1 (0x01)	Total operating hours	Bit (32)	32 Bit	ro		0...1000000	[h]
2 (0x02)	Operating hours since last reset	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	
226 (0xE2)	System state	Record <sup>3</sup>	2 Byte	ro			
1 (0x01)	Detection output Quint.1	Bit (0)	1 Bit	ro		false = No object detected true = Object detected	
2 (0x02)	Detection output Quint.2	Bit (1)	1 Bit	ro		false = No object detected true = Object detected	
6 (0x06)	Input signal state Pin 2	Bit (7)	1 Bit	ro		false = External input FALSE true = External input TRUE	
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	
229 (0xE5)	Distance to object	Record <sup>3</sup>	3 Byte	ro			
1 (0x01)	Distance	Bit (8)	16 Bit	ro		0...30000	[1/10mm]
2 (0x02)	Distance qualifier	Bit (0)	8 Bit	ro		0 = Distance in range / valid 3 = No distance information / distance invalid	
1080 (0x438)	SLTI Version	String	8 Byte	ro			
1081 (0x439)	Input selector 1	UInt	8 Bit	rw	0	0 = Quint.1 1 = Quint.2 64 = Ext.input1	
1082 (0x43A)	Input selector 2	UInt	8 Bit	rw	64	0 = Quint.1 1 = Quint.2 64 = Ext.input1	
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)	Name	Access <sup>1</sup>	Value	Name	Remark [Unit]		
2 (0x02)	Standard Command	wo	65	Teach SP1			
			67	Teach SP1 TP1			
			68	Teach SP1 TP2			
			79	Abort Teach-in sequence			
			130	Restore Factory Settings			
			228	Reset diagnostics parameter			

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Para mais representantes e agências, consulte [www.sick.com](http://www.sick.com) - Alterações poderão ser feitas sem prévio aviso - As características do produto e os dados técnicos apresentados não constituem declaração de garantia.

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Más representantes y agencias en [www.sick.com](http://www.sick.com) - Sujeto a cambio sin previo aviso - Las características y los datos técnicos especificados no constituyen ninguna declaración de garantía.

欲了解更多代表机构和代理商信息，请登录 [www.sick.com](http://www.sick.com) - 如有更改，不另行通知 - 对所给出的产品特性和技术参数 的正确性不予保证。



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

## ENGLISH

Events			
Code dec (hex)	Name	Type	Remark [Unit]
30480 (0x7710)	Short circuit	Error	Shortcut on outputs
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
36011 (0x8CAB)	Alarm operating hours	Warning	Threshold for operating hours violated

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