

SICK

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CMB18/30

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Niederland Phone +31 (0)30 229 25 44	
SICK AG, Erwin-Sick-Strasse 1, D.79183 Waldkirch	

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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	5.0 ms
Baudrate ²	COM2
Process Data Length (IN)	4 Byte
IODD version	V1.0
Valid for IO-Link version	1.1.0

2. Process data

PD_ProcessData

Record³: 4 Byte - Process Data In

Bitoffset																
Byte 0	Analogue Value															
Type/Subindex	Unsigned Integer 16															
Bitoffset																
Byte 1	Analogue Value															
Type/Subindex	Unsigned Integer 16															
Bitoffset																
Byte 2																
Type/Subindex																
Bitoffset																
Byte 3	Short Circuit		Temperature alarm		Dust Alarm 2		Dust Alarm 1		Detection output Quint.2		Detection output Quint.1		Switching signal QL2		Switching signal QL1	
Type/Subindex	Boolean		Boolean		Boolean		Boolean		Boolean		Boolean		Boolean		Boolean	

3. Service data

The following ISDUs will not be saved via Data-Storage: Teach-in channel, Trimmer Value and Find me

Index dec (hex)	Name	Format (Offset)	Length	Access ¹	Default Value	Value / Range	Remark [Unit]
12 (0x0C)	Device Access Locks	Record ³	2 Byte	rw	The access to the device parameters can be restricted by setting appropriate flags within this parameter.		
1 (0x01)	Parameter Write Access	Bit (0)	1 Bit	rw	true = Locked false = Unlocked	This lock prevents the write access to all read/write parameters of the device except for the parameter 'Device Access Locks'.	
2 (0x02)	Data Storage	Bit (1)	1 Bit	rw	true = Locked false = Unlocked	This lock prevents the write access to the device parameters via the data storage mechanism.	
3 (0x03)	Local Parameterization	Bit (2)	1 Bit	rw	true = Locked false = Unlocked	This lock prevents the device settings from being changed via local operating elements on the device.	
4 (0x04)	Local User Interface	Bit (3)	1 Bit	rw	true = Locked false = Unlocked	This lock prevents the access to the device settings and display via a local user interface. The user interface is disabled.	
16 (0x10)	Vendor Name	String	20 Byte	ro	SICK AG	The vendor name that is assigned to a Vendor ID.	
17 (0x11)	Vendor Text	String	20 Byte	ro	www.sick.com	Additional information about the vendor.	
18 (0x12)	Product Name	String	20 Byte	ro	CMB	Complete product name.	
19 (0x13)	Product ID	String	20 Byte	ro	pid.sick.com/	Vendor-specific product or type identification (e.g., item number or model number).	
20 (0x14)	Product Text	String	30 Byte	ro	Capacitive Proximity Sensor	Additional product information for the device.	
21 (0x15)	Serial Number	String	13 Byte	ro	Unique, vendor-specific identifier of the individual device.		
22 (0x16)	Hardware Revision	String	6 Byte	ro	01.00	Unique, vendor-specific identifier of the hardware revision of the individual device.	
23 (0x17)	Firmware Revision	String	8 Byte	ro	Unique, vendor-specific identifier of the firmware revision of the individual device.		
24 (0x18)	Application-specific Tag	String	32 Byte	rw	***	Possibility to mark a device with user- or application-specific information.	
32 (0x20)	Error Count	UInt	16 Bit	ro	Number of errors that occurred in the technology-specific application since power on or restart.		
36 (0x24)	Device Status	UInt	8 Bit	ro	0 = Device is OK 1 = Maintenance required 2 = Out of specification 3 = Functional check 4 = Failure	Indicator for the current device condition and diagnosis state.	
37 (0x25)	Detailed Device Status	Array ³	15 Byte	ro	Octet String [5]		
40 (0x28)	PD Input	PD In	4 Byte	ro	Last valid process input data of the device.		

SICK device specific

Index dec (hex)	Name	Format (Offset)	Length	Access ¹	Default Value	Value / Range	Remark [Unit]
25 (0x19)	Function Tag	String	32 Byte	rw	***		
26 (0x1A)	Location Tag	String	32 Byte	rw	***		
58 (0x3A)	Teach-in channel	UInt	8 Bit	rw	0	0 = Default (Quint.1) 1 = Quint.1 2 = Quint.2	
59 (0x3B)	Teach-in state	Record ³	1 Byte	ro			
1 (0x01)	Teach-in State	Bit (0)	4 Bit	ro	0 = IDLE 1 = SUCCESS 4 = WAIT FOR COMMAND 5 = BUSY 7 = ERROR		
2 (0x02)	TeachPoint 1 of Set point 1	Bit (4)	1 Bit	ro	true = OK false = Not OK		
3 (0x03)	TeachPoint 2 of Set point 1	Bit (5)	1 Bit	ro	true = OK false = Not OK		

¹ro = read only, wo = write only, rw = read/write

²COM values specify the bitrate (see IO-Link specification): COM1 (4,8 kbit/s), COM2 (38,4 kbit/s), COM3 (230,4 kbit/s)

³Subindex access not supported



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SICK device specific							
Index dec (hex)	Name	Format (Offset)	Length	Access ¹	Default Value	Value / Range	Remark [Unit]
4 (0x04)	TeachPoint 1 of Set point 2	Bit (6)	1 Bit	ro	true = OK false = Not OK		
5 (0x05)	TeachPoint 2 of Set point 2	Bit (7)	1 Bit	ro	true = OK false = Not OK		
60 (0x3C)	Qint.1 SP1 / SP2	Record	4 Byte	rw			
1 (0x01)	Set Point 1	Bit (16)	16 Bit	rw	1000	10...10000	
2 (0x02)	Set Point 2	Bit (0)	16 Bit	rw	10000	10...10000	
61 (0x3D)	Qint.1 configuration	Record	4 Byte	rw			
1 (0x01)	Switching Logic	Bit (24)	8 Bit	rw	0	0 = Not inverted 1 = Inverted	
2 (0x02)	Mode	Bit (16)	8 Bit	rw	1	0 = Deactivated 1 = Single Point Mode 2 = Window Mode 3 = Two Point Mode	
3 (0x03)	Hysteresis	Bit (0)	16 Bit	rw	1...100		
62 (0x3E)	Qint.2 SP1 / SP2	Record	4 Byte	rw			
1 (0x01)	Set Point 1	Bit (16)	16 Bit	rw	1000	10...10000	
2 (0x02)	Set Point 2	Bit (0)	16 Bit	rw	10000	10...10000	
63 (0x3F)	Qint.2 configuration	Record	4 Byte	rw			
1 (0x01)	Switching Logic	Bit (24)	8 Bit	rw	0	0 = Not inverted 1 = Inverted	
2 (0x02)	Mode	Bit (16)	8 Bit	rw	1	0 = Deactivated 1 = Single Point Mode 2 = Window Mode 3 = Two Point Mode	
3 (0x03)	Hysteresis	Bit (0)	16 Bit	rw	1...100		
67 (0x43)	Process data configuration	Record ³	2 Byte	rw			
1 (0x01)	QL1	Bit (0)	1 Bit	rw	true	true = QL1 Active false = QL1 Inactive	
2 (0x02)	QL2	Bit (1)	1 Bit	rw	true	true = QL2 Active false = QL2 Inactive	
3 (0x03)	Qint.1	Bit (2)	1 Bit	rw	false	true = Qint.1 Active false = Qint.1 Inactive	
4 (0x04)	Qint.2	Bit (3)	1 Bit	rw	false	true = Qint.2 Active false = Qint.2 Inactive	
5 (0x05)	Dust alarm 1	Bit (4)	1 Bit	rw	false	true = DA1 Active false = DA1 Inactive	
6 (0x06)	Dust alarm 2	Bit (5)	1 Bit	rw	false	true = DA2 Active false = DA2 Inactive	
7 (0x07)	Temperature alarm	Bit (6)	1 Bit	rw	false	true = TA Active false = TA Inactive	
8 (0x08)	Short-circuit	Bit (7)	1 Bit	rw	false	true = SC Active false = SC Inactive	
9 (0x09)	Analogue value	Bit (8)	1 Bit	rw	true	true = Analogue value Active false = Analogue value Inactive	
68 (0x44)	Selection of local/remote adjustment	UInt	8 Bit	rw	1	0 = Disabled 1 = Trimmer input 2 = Teach by wire	
69 (0x45)	Trimmer Value	UInt	16 Bit	ro			
71 (0x47)	Sensor application pre-set	UInt	8 Bit	rw	0	0 = Full scale range 1 = Liquid level 2 = Plastic pellets	
73 (0x49)	Safe ON/OFF limit	Record ³	2 Byte	rw			
1 (0x01)	Qint.1 Safe limit	Bit (8)	8 Bit	rw	0...100		
2 (0x02)	Qint.2 Safe limit	Bit (0)	8 Bit	rw	0...100		
74 (0x4A)	Filter scaler	UInt	8 Bit	rw	1	1...255	
75 (0x4B)	LED indication	UInt	8 Bit	rw	1	0 = LED indication Inactive 1 = LED indication Active	
91 (0x5B)	Physical output type configuration pin 4	UInt	8 Bit	rw	1	1 = PNP 2 = NPN 3 = Push-Pull	
114 (0x72)	Quality of Teach	UInt	8 Bit	ro			
121 (0x79)	Pin 2 configuration	UInt	8 Bit	rw	40	0 = Deactivated 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/ 80 = External Input Pull-Down 81 = External Input Pull-Up	
153 (0x99)	Temperature	Record	14 Byte	ro			
1 (0x01)	Current temperature	Bit (96)	16 Bit	ro			
2 (0x02)	Max temperature all time	Bit (80)	16 Bit	ro			
3 (0x03)	Min temperature all time	Bit (64)	16 Bit	ro			
4 (0x04)	Max temperature since last reset	Bit (48)	16 Bit	ro			
5 (0x05)	Min temperature since last reset	Bit (32)	16 Bit	ro			
6 (0x06)	Max temperature since start-up	Bit (16)	16 Bit	ro			
7 (0x07)	Min temperature since start-up	Bit (0)	16 Bit	ro			
156 (0x9C)	Temperature violation minutes	Record	8 Byte	ro			
1 (0x01)	Minutes above Maximum Temperature	Bit (32)	32 Bit	ro			

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³Subindex access not supported





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2 (0x02)	Minutes below Minimum Temperature	Bit (0)	32 Bit	ro			
175 (0xAF)	Quality of Run	UInt	8 Bit	ro			
179 (0xB3)	Alarm thresholds for diagnostic parameters	Record	4 Byte	rw			
1 (0x01)	Upper temperature threshold	Bit (16)	16 Bit	rw	120	-30...125	
2 (0x02)	Lower temperature threshold	Bit (0)	16 Bit	rw	-30	-30...125	
190 (0xBE)	Operating hours	Record	12 Byte	ro			
1 (0x01)	Total operating hours	Bit (64)	32 Bit	ro			
2 (0x02)	Operating hours since last reset	Bit (32)	32 Bit	ro			
3 (0x03)	Operating hours since start-up	Bit (0)	32 Bit	ro			
191 (0xBF)	Number of Power Cycles	Record	8 Byte	ro			
1 (0x01)	Total power cycles	Bit (32)	32 Bit	ro			
2 (0x02)	Power cycles since last reset	Bit (0)	32 Bit	ro			
192 (0xC0)	Switching cycles	Record	12 Byte	ro			
1 (0x01)	Total switching cycles	Bit (64)	32 Bit	ro			
2 (0x02)	Switching cycles since last reset	Bit (32)	32 Bit	ro			
3 (0x03)	Switching cycles since start-up	Bit (0)	32 Bit	ro			
204 (0xCC)	Find me	UInt	8 Bit	rw	0	0 = Find me deactivated 1 = Find me activated	
227 (0xE3)	Notification handling	Record ³	2 Byte	rw			
1 (0x01)	General setup	Bit (0)	4 Bit	rw	0	0 = All disabled 1 = All enabled 4 = Individual setup	
2 (0x02)	Maintenance event (0x8CAA)	Bit (4)	1 Bit	rw	false	true = Enabled false = Disabled	
3 (0x03)	Temperature fault event (0x8CC0)	Bit (5)	1 Bit	rw	false	true = Enabled false = Disabled	
4 (0x04)	Temperature over-run event (0x8CA8)	Bit (6)	1 Bit	rw	false	true = Enabled false = Disabled	
5 (0x05)	Temperature under-run event (0x8CAF)	Bit (7)	1 Bit	rw	false	true = Enabled false = Disabled	
6 (0x06)	Short circuit event (0x7710)	Bit (8)	1 Bit	rw	false	true = Enabled false = Disabled	
228 (0xE4)	Alarm maintenance counter	UInt	16 Bit	ro			
1080 (0x438)	SLTI Version	String	8 Byte	ro	1.1.0		
1081 (0x439)	Input Selector 1	UInt	8 Bit	rw	0	0 = Qint.1 1 = Qint.2 64 = External logic input 128 = Quality of run alarm (DA1) 129 = Quality of run alarm (DA2) 130 = Quality of run alarm (TA)	
1082 (0x43A)	Input Selector 2	UInt	8 Bit	rw	64	0 = Qint.1 1 = Qint.2 64 = External logic input 128 = Quality of run alarm (DA1) 129 = Quality of run alarm (DA2) 130 = Quality of run alarm (TA)	
1083 (0x43B)	Logic 1	UInt	8 Bit	rw	0	0 = Direct 1 = AND 2 = OR 3 = XOR 4 = Hysteresis	
1084 (0x43C)	Logic 2	UInt	8 Bit	rw	0	0 = Direct 1 = AND 2 = OR 3 = XOR 4 = Hysteresis	
1085 (0x43D)	Timer 1 Mode	UInt	8 Bit	rw	0	0 = Disabled Timer 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 = Disabled Timer 1 = T-on delay 2 = T-off delay 3 = T-on/T-off delay 4 = Impulse (one shot)	
1087 (0x43F)	Timer 1 setup	UInt	16 Bit	rw	1	1...30000	
1088 (0x440)	Timer 2 setup	UInt	16 Bit	rw	1	1...30000	
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 = Not inverted 1 = Inverted		

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Fiere representanter og agenturer på www.sick.com - Med forbehold for ændringer og fejl - De afrittede produkttegnskaber og tekniske data udgør ikke nogen garanti erklæring.

Altri rappresentanti ed agenzie si trovano su www.sick.com - Contenuti soggetti a modifiche senza preavviso - Le caratteristiche del prodotto e i dati tecnici non rappresentano una dichiarazione di garanzia.

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欲了解更多代表机构和代理商信息，请登录 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

Standard command	Index dec (hex)	System Command	Access ¹	Value	Name	Remark [Unit]
	2 (0x02)		wo	64	Teach Apply	
				65	Teach SP1	
				66	Teach SP2	
				67	Teach SP1 TP1	
				68	Teach SP1 TP2	
				69	Teach SP2 TP1	
				70	Teach SP2 TP2	
				71	Teach SP1 Start	
				72	Teach SP1 Stop	
				73	Teach SP2 Start	
				74	Teach SP2 Stop	
				79	Teach Cancel	
				130	Restore Factory Settings	
				160	Restore Quint's	
				228	Reset diagnostics data	

Code dec (hex)	Name	Type	Remark [Unit]
30480 (0x7710)	Short circuit	Error	Check installation
36008 (0x8CA8)	Alarm upper temperature threshold	Warning	
36010 (0x8CAA)	Alarm maintenance prediction	Notification	
36015 (0x8CAF)	Alarm lower temperature threshold	Warning	
36032 (0x8CC0)	Temperature fault	Error	

Code dec (hex)	Additional Code	Name	Remark [Unit]
128 (0x80)	0 (0x00)	Device application error - no details	Service was denied by the technology-specific application. No detailed root-cause information is available.
128 (0x80)	17 (0x11)	Index not available	Read or write access attempt to a non-existing index.
128 (0x80)	18 (0x12)	Subindex not available	Read or write access attempt to a non-existing subindex of an existing index.
128 (0x80)	32 (0x20)	Service temporarily not available	Parameter not accessible due to the current state of the technology-specific application.
128 (0x80)	33 (0x21)	Service temporarily unavailable - local control	Parameter not accessible. The device is currently in an ongoing, locally controlled operation.
128 (0x80)	35 (0x23)	Access denied	Write access to a read-only parameter or read access to write-only parameter.
128 (0x80)	48 (0x30)	Parameter value out of range	Written parameter value is outside of the permitted value range.
128 (0x80)	51 (0x33)	Parameter length overrun	Written parameter is longer than specified.
128 (0x80)	52 (0x34)	Parameter length underrun	Written parameter is shorter than specified.
128 (0x80)	53 (0x35)	Function unavailable	Written command is not supported by the technology-specific application.
128 (0x80)	54 (0x36)	Function temporarily unavailable	Written command is unavailable due to the current state of the technology-specific application.
128 (0x80)	64 (0x40)	Invalid parameter set	Written single parameter value collides with other existing parameter settings.
128 (0x80)	130 (0x82)	Application not ready	Read or write access denied. The technology-specific application is temporarily unavailable.

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)

³Subindex access not supported