



8019237 0117

OD1000 COM3

8388904

1999297776

9239743 0117 (1.1.0)

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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 the master port's max. output power current.

SIO Modus	yes
Min Cycle Time	400 µs
Baudrate ²	COM3
Process Data Length	16 Bit

2. Process data

Integer 16: 2 Byte

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

Bitoffset																
Byte 0	15	14	13	12	11	10	9	8								
Type/Subindex	Integer 16															

Bitoffset																
Byte 1	7	6	5	4	3	2	1	0								
Type/Subindex																

Unsigned Integer 16: 2 Byte

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

Bitoffset																
Byte 0	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																

Unsigned Integer 16: 2 Byte

Condition: ISDU: Process data structure, Index: 120, Subindex: 0, Value: 2

Bitoffset																
Byte 0	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																

Integer 16: 2 Byte

Condition: ISDU: Process data structure, Index: 120, Subindex: 0, Value: 3

Bitoffset																
Byte 0	15	14	13	12	11	10	9	8								
Type/Subindex	Integer 16															

Bitoffset																
Byte 1	7	6	5	4	3	2	1	0								
Type/Subindex																

Record³: 2 Byte

Condition: ISDU: Process data structure, Index: 120, Subindex: 0, Value: 4

Bitoffset																
Byte 0	15	14	13	12	11	10	9	8								
Type/Subindex	Integer 14															

Bitoffset																	
Byte 1	2	1	0	7	6	5	4	3	2	1	0	Q1	Q2				
Type/Subindex	Integer 14			3		Boolean		2		Boolean		1					

Record³: 2 Byte

Condition: ISDU: Process data structure, Index: 120, Subindex: 0, Value: 5

Bitoffset																
Byte 0	15	14	13	12	11	10	9	8								
Type/Subindex	Unsigned Integer 14															

Bitoffset																	
Byte 1	2	1	0	7	6	5	4	3	2	1	0	Q1	Q2				
Type/Subindex	Unsigned Integer 14			3		Boolean		2		Boolean		1					

DEUTSCH

1. Physikalische Schicht
Hinweis: Max. Stromaufnahme des IO-Link Devices (inkl. Lastströme) darf max. Ausgangsstrom des Master-Ports nicht überschreiten.

SIO Modus	ja
Min. Zykluszeit	400 µs
Baudrate ²	COM3
Prozessdatenlänge	16 Bit

2. Prozessdaten

Integer 16: 2 Byte

Condition: ISDU: Prozessdaten Struktur, Index: 120, Subindex: 0, Value: 0

Bitoffset																
Byte 0	15	14	13	12	11	10	9	8								
Type/Subindex	Integer 16															

Bitoffset																
Byte 1	7	6	5	4	3	2	1	0								
Type/Subindex																

Unsigned Integer 16: 2 Byte

Condition: ISDU: Prozessdaten Struktur, Index: 120, Subindex: 0, Value: 1

Bitoffset																
Byte 0	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																

Unsigned Integer 16: 2 Byte

Condition: ISDU: Prozessdaten Struktur, Index: 120, Subindex: 0, Value: 2

Bitoffset																
Byte 0	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																

Integer 16: 2 Byte

Condition: ISDU: Prozessdaten Struktur, Index: 120, Subindex: 0, Value: 3

Bitoffset																
Byte 0	15	14	13	12	11	10	9	8								
Type/Subindex	Integer 16															

Bitoffset																
Byte 1	7	6	5	4	3	2	1	0								
Type/Subindex																

Record³: 2 Byte

Condition: ISDU: Prozessdaten Struktur, Index: 120, Subindex: 0, Value: 4

Bitoffset																
Byte 0	15	14	13	12	11	10	9	8								
Type/Subindex	Integer 14															

Bitoffset																	
Byte 1	2	1	0	7	6	5	4	3	2	1	0	Q1	Q2				
Type/Subindex	Integer 14			3		Boolean		2		Boolean		1					

Record³: 2 Byte

Condition: ISDU: Prozessdaten Struktur, Index: 120, Subindex: 0, Value: 5

Bitoffset																
Byte 0	15	14	13	12	11	10	9	8								
Type/Subindex	Unsigned Integer 14															

Bitoffset																	
Byte 1	2	1	0	7	6	5	4	3	2	1	0	Q1	Q2				
Type/Subindex	Unsigned Integer 14			3		Boolean		2		Boolean		1					

¹ro = read only, wo = write only, rw = read/write / ro = nur lesen, wo = nur schreiben, rw = lesen/schreiben

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

³Subindex access not supported / Subindexzugriff nicht unterstützt

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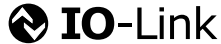
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Please note the validity of the additional operating instructions for automation functions

ENGLISH

Record³: 2 Byte
Condition: ISDU: Process data structure, Index: 120, Subindex: 0, Value: 6

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

Record³: 2 Byte
Condition: ISDU: Process data structure, Index: 120, Subindex: 0, Value: 7

Bitoffset	15	14	13	12	11	10	9	8	
Byte 0	Edge height jump								
Type/Subindex	Integer 14								
Bitoffset	7	6	5	4	3	2	1	0	
Byte 1	Edge height jump								
Type/Subindex	Integer 14			Boolean		Boolean		Boolean	

3. Service data

The following ISDUs will not be saved via Data-Storage: Teach-In Channel, Device specific tag and Selection of I/O Link COM

Index dec (hex)	Name	Format (Offset)	Length	Access ¹	Default Value	Value / Range	Remark [Unit]
0 (0x00)	Direct Parameters 1	Record	16 Byte	rw			
1 (0x01)	Direct Parameters 2	Record	16 Byte	rw			
12 (0x0C)	Device Access Locks	Record ³	2 Byte	rw			
1 (0x01)	Parameter (write) Access Lock	Bit (0)	1 Bit	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	64 Byte	ro	SICK AG		
17 (0x11)	Vendor Text	String	64 Byte	ro	SICK Sensors		
18 (0x12)	Product Name	String	64 Byte	ro	OD1000-6001R15		
19 (0x13)	Product ID	String	64 Byte	ro			
21 (0x15)	Serial Number	String	16 Byte	ro			
22 (0x16)	Hardware Version	String	64 Byte	ro			
23 (0x17)	Firmware Version	String	64 Byte	ro			
24 (0x18)	Application Specific Tag	String	32 Byte	rw	***		
40 (0x28)	Process Data Input	PD In	2 Byte	ro			

Index dec (hex)	Name	Format (Offset)	Length	Access ¹	Default Value	Value / Range	Remark [Unit]
13 (0x0D)	Smart Sensor Profile Characteristics	Record ³	6 Byte	ro			Smart Sensor Profile Characteristics
14 (0x0E)	PDInput Descriptor	Array ³	6 Byte	ro		Octet String [6]	Smart Sensor Profile Process data description (only valid for distance+Q1+Q2; see index 120)
58 (0x3A)	Teach-In Channel	UInt	8 Bit	rw	0	0 = BDC0 (mapped to Q1) 1 = BDC1 (mapped to Q2)	
59 (0x3B)	Teach-In Status	Record ³	1 Byte	ro			
1 (0x01)	Teach state	Bit (0)	4 Bit	ro		0 = IDLE 1 = SP1 success 2 = SP2 success 3 = SP12 success 4 = Wait for command 5 = Busy 6 = Reserved 7 = Error	
2 (0x02)	SP1 (far) TP1	Bit (4)	1 Bit	ro		true = Teachpoint successfully taught false = Teachpoint not taught	

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

³Subindex access not supported / Subindexzugriff nicht unterstützt

DEUTSCH

Record³: 2 Byte
Condition: ISDU: Processdaten Struktur, Index: 120, Subindex: 0, Value: 6

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

Record³: 2 Byte
Condition: ISDU: Processdaten Struktur, Index: 120, Subindex: 0, Value: 7

Bitoffset	15	14	13	12	11	10	9	8	
Byte 0	Kantenhöhensprung								
Type/Subindex	Integer 14								
Bitoffset	7	6	5	4	3	2	1	0	
Byte 1	Kantenhöhensprung								
Type/Subindex	Integer 14			Boolean		Boolean		Boolean	

3. Servicedaten

Die folgenden ISDUs werden nicht über Data-Storage gesichert: Teach Kanal, Gerätespezifische Marke und Auswahl IO-Link COM

Index dez (hex)	Name	Format (Offset)	Länge	Zugriff ¹	Standard Wert	Wertebereich	Bemerkung [Einheit]
0 (0x00)	Direkte Parameter 1	Record	16 Byte	rw			
1 (0x01)	Direkte Parameter 2	Record	16 Byte	rw			
12 (0x0C)	Gerätezugriffssperren	Record ³	2 Byte	rw			
1 (0x01)	Parameter (Schreib-)Zugriffssperre	Bit (0)	1 Bit	rw			
2 (0x02)	Datenspeicherungs-sperre	Bit (1)	1 Bit	rw			
3 (0x03)	Lokale Parameterisierungssperre	Bit (2)	1 Bit	rw			
4 (0x04)	Lokale Benutzerinterface-Sperre	Bit (3)	1 Bit	rw			
16 (0x10)	Herstellername	String	64 Byte	ro	SICK AG		
17 (0x11)	Herstellertext	String	64 Byte	ro	SICK Sensors		
18 (0x12)	Produktname	String	64 Byte	ro	OD1000-6001R15		
19 (0x13)	Produkt-ID	String	64 Byte	ro			
21 (0x15)	Seriennummer	String	16 Byte	ro			
22 (0x16)	Hardwareversion	String	64 Byte	ro			
23 (0x17)	Firmwareversion	String	64 Byte	ro			
24 (0x18)	Anwendungsspezifische Markierung	String	32 Byte	rw	***		
40 (0x28)	Prozessdaten Eingang	PD In	2 Byte	ro			

Index dez (hex)	Name	Format (Offset)	Länge	Zugriff ¹	Standard Wert	Wertebereich	Bemerkung [Einheit]
13 (0x0D)	Smart Sensor Profil Charakteristik	Record ³	6 Byte	ro			Smart Sensor Profil Charakteristik
14 (0x0E)	PDInput Beschreibung	Array ³	6 Byte	ro		Octet String [6]	Smart Sensor Profil Prozessdatenbeschreibung (nur gültig für Distanz + Q1 + Q2; siehe index 120)
58 (0x3A)	Teach Kanal	UInt	8 Bit	rw	0	0 = BDC0 (entspricht Q1) 1 = BDC1 (entspricht Q2)	
59 (0x3B)	Teach Status	Record ³	1 Byte	ro			
1 (0x01)	Teach Status	Bit (0)	4 Bit	ro		0 = IDLE 1 = SP1 erfolgreich 2 = SP2 erfolgreich 3 = SP12 erfolgreich 4 = Warte auf Kommando 5 = Busy 6 = Reserviert 7 = Fehler	



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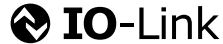
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ENGLISH							
SICK device specific							
Index dec (hex)	Name	Format (Offset)	Length	Access ¹	Default Value	Value / Range	Remark [Unit]
3 (0x03)	SP1 (far) TP2	Bit (5)	1 Bit	ro		true = Teachpoint successfully taught false = Teachpoint not taught	
4 (0x04)	SP2 (near) TP1	Bit (6)	1 Bit	ro		true = Teachpoint successfully taught false = Teachpoint not taught	
5 (0x05)	SP2 (near) TP2	Bit (7)	1 Bit	ro		true = Teachpoint successfully taught false = Teachpoint not taught	
60 (0x3C)	Q1 switching points	Record	4 Byte	rw			
1 (0x01)	Switching point 1 (far)	Bit (16)	16 Bit	rw	4000	-10000...10000	[1/10 mm]
2 (0x02)	Switching point 2 (near)	Bit (0)	16 Bit	rw	-4000	-10000...10000	[1/10 mm]
61 (0x3D)	Q1 switching point settings	Record	4 Byte	rw			
1 (0x01)	Active state	Bit (24)	8 Bit	rw	0	0 = high 1 = low	
2 (0x02)	Mode	Bit (16)	8 Bit	rw	1	1 = Distance to object 2 = Window 128 = Object between sensor and background (ObsB) 130 = Alarm 131 = Signal level warning 132 = Edge height jump	
3 (0x03)	Hysteresis	Bit (0)	16 Bit	rw	10	0...10000	
62 (0x3E)	Q2 switching points	Record	4 Byte	rw			
1 (0x01)	Switching point 1 (far)	Bit (16)	16 Bit	rw	4000	-10000...10000	[1/10 mm]
2 (0x02)	Switching point 2 (near)	Bit (0)	16 Bit	rw	-4000	-10000...10000	[1/10 mm]
63 (0x3F)	Q2 switching point settings	Record	4 Byte	rw			
1 (0x01)	Active state	Bit (24)	8 Bit	rw	0	0 = high 1 = low	
2 (0x02)	Mode	Bit (16)	8 Bit	rw	1	1 = Distance to object 2 = Window 128 = Object between sensor and background (ObsB) 130 = Alarm 131 = Signal level warning 132 = Edge height jump 133 = Q2 = Q1 not	
3 (0x03)	Hysteresis	Bit (0)	16 Bit	rw	10	0...10000	
64 (0x40)	Device specific tag	String	32 Byte	rw	***		Device specific tag
65 (0x41)	Measurement value filter	UInt	8 Bit	rw	1	1 = no filter used 2 = Average filter 3 = Median filter	
66 (0x42)	Bit filter	Record	5 Byte	rw			
1 (0x01)	Filter function	Bit (32)	8 Bit	rw	0	0 = Bit filter 3 = no filter used	
2 (0x02)	Filter depth	Bit (0)	32 Bit	rw	2	1...32	
67 (0x43)	Distance range	Record ³	8 Byte	rw			Setup for ROI near and far limit
1 (0x01)	Near limit	Bit (32)	32 Bit	rw	0		Near limit value have to be smaller then far limit value!
2 (0x02)	Far limit	Bit (0)	32 Bit	rw	3000		Far limit value have to be greater then near limit value!
68 (0x44)	Cycle time	UInt	16 Bit	rw	0	0 = auto 330 = 0.3 ms 500 = 0.5 ms 1000 = 1 ms 5000 = 5 ms 10000 = 10 ms	

¹ro = read only, wo = write only, rw = read/write / ro = nur lesen, wo = nur schreiben, rw = lesen/schreiben

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

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DEUTSCH							
SICK spezifisch							
Index dez (hex)	Name	Format (Offset)	Länge	Zugriff ¹	Standard Wert	Wertebereich	Bemerkung [Einheit]
2 (0x02)	SP1 (fern) TP1	Bit (4)	1 Bit	ro		true = Teachpunkt gesetzt false = Teachpunkt nicht gesetzt	
3 (0x03)	SP1 (fern) TP2	Bit (5)	1 Bit	ro		true = Teachpunkt gesetzt false = Teachpunkt nicht gesetzt	
4 (0x04)	SP2 (nah) TP1	Bit (6)	1 Bit	ro		true = Teachpunkt gesetzt false = Teachpunkt nicht gesetzt	
5 (0x05)	SP2 (nah) TP2	Bit (7)	1 Bit	ro		true = Teachpunkt gesetzt false = Teachpunkt nicht gesetzt	
60 (0x3C)	Q1 Schaltpunkte	Record	4 Byte	rw			
1 (0x01)	Schaltpunkt 1 (fern)	Bit (16)	16 Bit	rw	4000	-10000...10000	[1/10 mm]
2 (0x02)	Schaltpunkt 2 (nah)	Bit (0)	16 Bit	rw	-4000	-10000...10000	[1/10 mm]
61 (0x3D)	Q1 Schaltpunkt Einstellungen	Record	4 Byte	rw			
1 (0x01)	Aktivstatus	Bit (24)	8 Bit	rw	0	0 = High 1 = Low	
2 (0x02)	Schaltfunktion	Bit (16)	8 Bit	rw	1	1 = Distanz zum Objekt 2 = Fenster 128 = Objekt zwischen Sensor und Hintergrund (ObsB) 130 = Alarm 131 = Signalpegel Warnung 132 = Kantenhöhenprung	
3 (0x03)	Hysteresis	Bit (0)	16 Bit	rw	10	0...10000	
62 (0x3E)	Q2 Schaltpunkte	Record	4 Byte	rw			
1 (0x01)	Schaltpunkt 1 (fern)	Bit (16)	16 Bit	rw	4000	-10000...10000	[1/10 mm]
2 (0x02)	Schaltpunkt 2 (nah)	Bit (0)	16 Bit	rw	-4000	-10000...10000	[1/10 mm]
63 (0x3F)	Q2 Schaltpunkt Einstellungen	Record	4 Byte	rw			
1 (0x01)	Aktivstatus	Bit (24)	8 Bit	rw	0	0 = High 1 = Low	
2 (0x02)	Schaltfunktion	Bit (16)	8 Bit	rw	1	1 = Distanz zum Objekt 2 = Fenster 128 = Objekt zwischen Sensor und Hintergrund (ObsB) 130 = Alarm 131 = Signalpegel Warnung 132 = Kantenhöhenprung 133 = Q2 = Q1 nicht	
3 (0x03)	Hysteresis	Bit (0)	16 Bit	rw	10	0...10000	
64 (0x40)	Gerätespezifische Marke	String	32 Byte	rw	***		Gerätespezifische Marke
65 (0x41)	Messwertfilter	UInt	8 Bit	rw	1	1 = keinen Filter verwenden 2 = Mittelwertfilter 3 = Medianfilter	
66 (0x42)	Bit Filter	Record	5 Byte	rw			
1 (0x01)	Filterfunktion	Bit (32)	8 Bit	rw	0	0 = Bit filter 3 = kein Filter	
2 (0x02)	Filtertiefe Bitfilter	Bit (0)	32 Bit	rw	2	1...32	
67 (0x43)	Distanzbereich	Record ³	8 Byte	rw			Einstellung für ROI (region of interest) nahe Grenze und ferne Grenze
1 (0x01)	Nahe Grenze	Bit (32)	32 Bit	rw	0		Wert für die nahe Grenze muss kleiner sein als der Wert für die ferne Grenze!
2 (0x02)	Ferne Grenze	Bit (0)	32 Bit	rw	3000		Wert für die ferne Grenze muss größer sein als der Wert für die nahe Grenze!



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France Phone +33 1 64 62 39 00	Taiwan Phone +886 2 2375-6288
Great Britain Phone +44 (0)1727 831521	Türkei Phone +90 (216) 538 50 00
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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 ¹	Default Value	Value / Range
69 (0x45)	Processdata resolution	UInt	16 Bit	rw	10	1 = 10 um 10 = 100 um 100 = 1000 um
70 (0x46)	Edge height jump	Record	17 Byte	rw		
1 (0x01)	Cycle offset	Bit (104)	32 Bit	rw	8	1...256
2 (0x02)	Min. height jump	Bit (72)	32 Bit	rw	100	
3 (0x03)	Max. height jump	Bit (40)	32 Bit	rw	1000	
4 (0x04)	Hysteresis	Bit (8)	32 Bit	rw	5	
5 (0x05)	jump direction	Bit (0)	8 Bit	rw	2	0 = positive 1 = negative 2 = both edges
71 (0x47)	Q1 ObSB tolerance	Int	32 Bit	rw	40	0...10000
72 (0x48)	Q2 ObSB tolerance	Int	32 Bit	rw	40	0...10000
73 (0x49)	Average filter	UInt	16 Bit	rw	4	4 = 4 8 = 8 16 = 16 32 = 32 64 = 64 512 = 512
74 (0x4A)	Median filter	UInt	16 Bit	rw	3	3 = 3 7 = 7 15 = 15 31 = 31 63 = 63 511 = 511
75 (0x4B)	Measurement direction	UInt	8 Bit	rw	0	0 = positive 1 = negative
76 (0x4C)	Measurement value offset	Int	32 Bit	rw	-6000	-10000...10000
77 (0x4D)	error suppression time	UInt	32 Bit	rw	1	1...100000
78 (0x4E)	user-defined substitute values	Int	16 Bit	rw	32767	
79 (0x4F)	Mismeasurement behavior	UInt	8 Bit	rw	0	0 = Substitute value error 1 = hold last distance value 2 = hold last distance value for defined time
84 (0x54)	User Tag 1	UInt	32 Bit	rw	0	
85 (0x55)	User Tag 2	UInt	16 Bit	rw	0	
88 (0x58)	device state	Re-cord ³	4 Byte	ro		
1 (0x01)	no signal detected	Bit (0)	1 Bit	ro		true = true false = false
2 (0x02)	internal error 1	Bit (1)	1 Bit	ro		true = true false = false
3 (0x03)	internal error 2	Bit (2)	1 Bit	ro		true = true false = false
4 (0x04)	temperature error	Bit (3)	1 Bit	ro		true = true false = false
5 (0x05)	internal error 3	Bit (4)	1 Bit	ro		true = true false = false
6 (0x06)	internal error 4	Bit (5)	1 Bit	ro		true = true false = false
7 (0x07)	laser error 1	Bit (6)	1 Bit	ro		true = true false = false
8 (0x08)	laser error 2	Bit (7)	1 Bit	ro		true = true false = false
9 (0x09)	laser error 3	Bit (8)	1 Bit	ro		true = true false = false
10 (0x0A)	reserved1	Bit (9)	1 Bit	ro		
11 (0x0B)	reserved2	Bit (10)	1 Bit	ro		
12 (0x0C)	reserved3	Bit (11)	1 Bit	ro		
13 (0x0D)	reserved4	Bit (12)	1 Bit	ro		
14 (0x0E)	reserved5	Bit (13)	1 Bit	ro		
15 (0x0F)	reserved6	Bit (14)	1 Bit	ro		
16 (0x10)	reserved7	Bit (15)	1 Bit	ro		
17 (0x11)	temperature warning	Bit (16)	1 Bit	ro		true = true false = false
18 (0x12)	laser warning	Bit (17)	1 Bit	ro		true = true false = false
19 (0x13)	laser switched off	Bit (18)	1 Bit	ro		true = true false = false

¹ ro = read only, wo = write only, rw = read/write / ro = nur lesen, wo = nur schreiben, rw = lesen/schreiben

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

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DEUTSCH

SICK spezifisch						
Index dez (hex)	Name	Format (Offset)	Länge	Zugriff ¹	Standard Wert	Wertebereich
2 (0x02)	Ferne Grenze	Bit (0)	32 Bit	rw	3000	
68 (0x44)	Messzykluszeit	UInt	16 Bit	rw	0	0 = auto 330 = 0.3 ms 500 = 0.5 ms 1000 = 1 ms 5000 = 5 ms 10000 = 10 ms
69 (0x45)	Prozessdaten Auflösung	UInt	16 Bit	rw	10	1 = 10 um 10 = 100 um 100 = 1000 um
70 (0x46)	Kantenhöehensprung	Record	17 Byte	rw		
1 (0x01)	Zyklenversatz	Bit (104)	32 Bit	rw	8	1...256
2 (0x02)	min. Höehensprung	Bit (72)	32 Bit	rw	100	
3 (0x03)	max. Höehensprung	Bit (40)	32 Bit	rw	1000	
4 (0x04)	Hysterese	Bit (8)	32 Bit	rw	5	
5 (0x05)	Sprungrichtung	Bit (0)	8 Bit	rw	2	0 = positiv 1 = negativ 2 = beide
71 (0x47)	Q1 ObSB Toleranz	Int	32 Bit	rw	40	0...10000
72 (0x48)	Q2 ObSB Toleranz	Int	32 Bit	rw	40	0...10000
73 (0x49)	Mittelwertfilter	UInt	16 Bit	rw	4	4 = 4 8 = 8 16 = 16 32 = 32 64 = 64 512 = 512
74 (0x4A)	Medianfilter	UInt	16 Bit	rw	3	3 = 3 7 = 7 15 = 15 31 = 31 63 = 63 511 = 511
75 (0x4B)	Messrichtung	UInt	8 Bit	rw	0	0 = positiv 1 = negativ
76 (0x4C)	Messwertoffset	Int	32 Bit	rw	-6000	-10000...10000
77 (0x4D)	Fehlerunterdrückungszeit	UInt	32 Bit	rw	1	1...100000
78 (0x4E)	Ersatzwert bei Fehler	Int	16 Bit	rw	32767	
79 (0x4F)	Verhalten bei Fehlmessung	UInt	8 Bit	rw	0	0 = Ersatzwert bei Fehler 1 = letzten Di-stanzwert halten 2 = letzten Di-stanzwert für definierte Zeit halten
84 (0x54)	Benutzerspezifische Marke 1	UInt	32 Bit	rw	0	
85 (0x55)	Benutzerspezifische Marke 2	UInt	16 Bit	rw	0	
88 (0x58)	Gerätstatus	Re-cord ³	4 Byte	ro		
1 (0x01)	kein Signal erkannt	Bit (0)	1 Bit	ro		true = true false = false
2 (0x02)	interner Fehler 1	Bit (1)	1 Bit	ro		true = true false = false
3 (0x03)	interner Fehler 2	Bit (2)	1 Bit	ro		true = true false = false
4 (0x04)	Temperaturfehler	Bit (3)	1 Bit	ro		true = true false = false
5 (0x05)	interner Fehler 3	Bit (4)	1 Bit	ro		true = true false = false
6 (0x06)	interner Fehler 4	Bit (5)	1 Bit	ro		true = true false = false
7 (0x07)	Laserfehler 1	Bit (6)	1 Bit	ro		true = true false = false
8 (0x08)	Laserfehler 2	Bit (7)	1 Bit	ro		true = true false = false
9 (0x09)	Laserfehler 3	Bit (8)	1 Bit	ro		true = true false = false
10 (0x0A)	reserved1	Bit (9)	1 Bit	ro		
11 (0x0B)	reserved2	Bit (10)	1 Bit	ro		
12 (0x0C)	reserved3	Bit (11)	1 Bit	ro		
13 (0x0D)	reserved4	Bit (12)	1 Bit	ro		
14 (0x0E)	reserved5	Bit (13)	1 Bit	ro		



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ENGLISH

SICK device specific							
Index dec (hex)	Name	Format (Offset)	Length	Access ¹	Default Value	Value / Range	Remark [Unit]
20 (0x14)	reserved9	Bit (19)	1 Bit	ro			
21 (0x15)	reserved10	Bit (20)	1 Bit	ro			
22 (0x16)	reserved11	Bit (21)	1 Bit	ro			
23 (0x17)	reserved12	Bit (22)	1 Bit	ro			
24 (0x18)	reserved13	Bit (23)	1 Bit	ro			
25 (0x19)	reserved14	Bit (24)	1 Bit	ro			
26 (0x1A)	reserved15	Bit (25)	1 Bit	ro			
27 (0x1B)	reserved16	Bit (26)	1 Bit	ro			
28 (0x1C)	reserved17	Bit (27)	1 Bit	ro			
29 (0x1D)	reserved18	Bit (28)	1 Bit	ro			
30 (0x1E)	reserved19	Bit (29)	1 Bit	ro			
31 (0x1F)	reserved20	Bit (30)	1 Bit	ro			
32 (0x20)	reserved21	Bit (31)	1 Bit	ro			
89 (0x59)	Error history	Array ³	130 Byte	ro		Unsigned Integer8 [130]	Error history
90 (0x5A)	Count error	Ulnt	32 Bit	ro			
91 (0x5B)	Count warning	Ulnt	32 Bit	ro			
92 (0x5C)	Q1 signal level warning threshold	Int	16 Bit	rw	112	0...5000	Q1 switching point for signal level warning mode
93 (0x5D)	Q2 signal level warning threshold	Int	16 Bit	rw	112	0...5000	Q2 switching point for signal level warning mode
97 (0x61)	Measuring laser	Ulnt	8 Bit	rw	1	0 = off 1 = on	
99 (0x63)	In1 input	Record ³	3 Byte	rw			
1 (0x01)	Active state	Bit (16)	8 Bit	rw	0	0 = high 1 = low	
2 (0x02)	Confirm teach	Bit (8)	8 Bit	rw	0	0 = No 1 = Yes	
3 (0x03)	debouncing active	Bit (0)	1 Bit	rw	1	true = Yes false = No	
100 (0x64)	In1 Trigger Setup	Record	5 Byte	rw			
1 (0x01)	In1 Trigger Mode	Bit (32)	8 Bit	rw	0	0 = Trigger 1 = Trigger and Time	
2 (0x02)	Trigger Time	Bit (0)	32 Bit	rw	100	0...100000	
120 (0x78)	Process data structure	Ulnt	8 Bit	rw	0	0 = Distance 1 = Level 2 = Timer 3 = Edge height jump 4 = Distance + Q1 + Q2 5 = Level + Q1 + Q2 6 = Timer + Q1 + Q2 7 = Height jump + Q1/Q2 status	
121 (0x79)	Qa/Q2 Output	Ulnt	8 Bit	rw	1	0 = Off 1 = Current output 4-20 mA 2 = Voltage output 0-10 V 3 = Digital output	Configure the output function
122 (0x7A)	In1 function	Ulnt	8 Bit	rw	6	0 = Off 1 = Sample HOLD 2 = Peak HOLD 3 = Bottom HOLD 4 = Peak-to-Peak HOLD 5 = Average HOLD 6 = Teach 7 = Laser on/off 8 = Zero point teach	

¹ ro = read only, wo = write only, rw = read/write / ro = nur lesen, wo = nur schreiben, rw = lesen/schreiben

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

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SICK spezifisch							
Index dez (hex)	Name	Format (Offset)	Länge	Zugriff ¹	Standard Wert	Wertebereich	Bemerkung [Einheit]
15 (0x0F)	reserved6	Bit (14)	1 Bit	ro			
16 (0x10)	reserved7	Bit (15)	1 Bit	ro			
17 (0x11)	Temperaturwarnung	Bit (16)	1 Bit	ro			true = true false = false
18 (0x12)	Laserwarnung	Bit (17)	1 Bit	ro			true = true false = false
19 (0x13)	Laser ausgeschaltet	Bit (18)	1 Bit	ro			true = true false = false
20 (0x14)	reserved9	Bit (19)	1 Bit	ro			
21 (0x15)	reserved10	Bit (20)	1 Bit	ro			
22 (0x16)	reserved11	Bit (21)	1 Bit	ro			
23 (0x17)	reserved12	Bit (22)	1 Bit	ro			
24 (0x18)	reserved13	Bit (23)	1 Bit	ro			
25 (0x19)	reserved14	Bit (24)	1 Bit	ro			
26 (0x1A)	reserved15	Bit (25)	1 Bit	ro			
27 (0x1B)	reserved16	Bit (26)	1 Bit	ro			
28 (0x1C)	reserved17	Bit (27)	1 Bit	ro			
29 (0x1D)	reserved18	Bit (28)	1 Bit	ro			
30 (0x1E)	reserved19	Bit (29)	1 Bit	ro			
31 (0x1F)	reserved20	Bit (30)	1 Bit	ro			
32 (0x20)	reserved21	Bit (31)	1 Bit	ro			
89 (0x59)	Fehlerhistorie	Array ³	130 Byte	ro		Unsigned Integer8 [130]	Fehlerhistorie
90 (0x5A)	Anzahl Fehler	Ulnt	32 Bit	ro			
91 (0x5B)	Anzahl Warnungen	Ulnt	32 Bit	ro			
92 (0x5C)	Q1 Signalpegelwarnung Grenzwert	Int	16 Bit	rw	112	0...5000	Q1 Schaltpunkt für Modus Signalpegel Warnung
93 (0x5D)	Q2 Signalpegelwarnung Grenzwert	Int	16 Bit	rw	112	0...5000	Q2 Schaltpunkt für Modus Signalpegel Warnung
97 (0x61)	Messlaser ein/aus	Ulnt	8 Bit	rw	1	0 = Aus 1 = An	
99 (0x63)	In1 Eingang	Record ³	3 Byte	rw			
1 (0x01)	Aktivstatus	Bit (16)	8 Bit	rw	0	0 = High 1 = Low	
2 (0x02)	Teach Bestätigung	Bit (8)	8 Bit	rw	0	0 = Nein 1 = Ja	
3 (0x03)	Entprellung aktiv	Bit (0)	1 Bit	rw	1	true = Ja false = Nein	
100 (0x64)	In1 Trigger Einstellung	Record	5 Byte	rw			
1 (0x01)	In1 Trigger Mode	Bit (32)	8 Bit	rw	0	0 = Trigger 1 = Trigger und Zeit	
2 (0x02)	Triggerzeit	Bit (0)	32 Bit	rw	100	0...100000	
120 (0x78)	Processdaten Struktur	Ulnt	8 Bit	rw	0	0 = Distanz 1 = Pegel 2 = Timer 3 = Kantenhöhen-sprung 4 = Distanz + Q1 + Q2 5 = Pegel + Q1 + Q2 6 = Timer + Q1 + Q2 7 = Kantenhöhen-sprung + Q1 + Q2	
121 (0x79)	Qa/Q2 Ausgang	Ulnt	8 Bit	rw	1	0 = Aus 1 = Stromausgang 4-20 mA 2 = Spannungsausgang 0-10 V 3 = Digitalausgang	Konfiguration der Ausgangsfunktion



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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 ¹	Default Value	Value / Range	Remark [Unit]
124 (0x7C)	Selection of I/O Link COM	UInt	8 Bit	rw	1	0 = COM2 1 = COM3	Select the IO-Link baudrate (NOTE: Changes the Deviceld!! Requires powercycle)
153 (0x99)	Temperature	Int	16 Bit	ro			
190 (0xBE)	Operating hours	Record	8 Byte	ro			
1 (0x01)	Sensor	Bit (32)	32 Bit	ro			
2 (0x02)	Laser	Bit (0)	32 Bit	ro			
204 (0xCC)	Findme	UInt	8 Bit	wo	0	0 = do nothing 1 = stop 2 = start	
205 (0xCD)	SICK Profile Version	String	4 Byte	ro			
212 (0xD4)	Delay mode for switching output Q1	UInt	8 Bit	rw	4	0 = ON delay 1 = OFF delay 2 = ON/OFF delay 3 = 1 shot 4 = Off	
213 (0xD5)	Delay mode for switching output Q2	UInt	8 Bit	rw	4	0 = ON delay 1 = OFF delay 2 = ON/OFF delay 3 = 1 shot 4 = Off	
214 (0xD6)	Time for delay mode Q1	UInt	16 Bit	rw	100		
215 (0xD7)	Time for delay mode Q2	UInt	16 Bit	rw	100		
228 (0xE4)	Display user level	UInt	8 Bit	rw	0	0 = easy 1 = advanced	
229 (0xE5)	Display language	UInt	8 Bit	rw	1	0 = german 1 = english	Selects the display language
230 (0xE6)	Display On/Off	UInt	8 Bit	rw	0	0 = auto 1 = Off 2 = On	
231 (0xE7)	Display brightness	UInt	8 Bit	rw	48	0...100 = brightness	
232 (0xE8)	Display orientation	UInt	8 Bit	rw	0	0 = 0° 1 = 180°	
233 (0xE9)	Display inversion	UInt	8 Bit	rw	0	0 = normal 1 = inverted	
234 (0xEA)	Firmware verification	Record ³	38 Byte	ro			Verification code and build date for verification of all firmware parts
1 (0x01)	Firmware verification	Bit (152)	19 Byte	ro			
2 (0x02)	Firmware build date	Bit (0)	19 Byte	ro			

Standard command							
Index dec (hex)	Name	Access ¹	Value	Name	Remark [Unit]		
2 (0x02)	Standard Command	wo	65	SP1 (far) Single Value Teach			
			66	SP2 (near) Single Value Teach			
			130	Restore Factory Settings			
			192	Save Customer Settings			
			193	Restore Customer Settings			
			194	Zero point teach			
			195	Zero point reset			

DEUTSCH											
SICK spezifisch											
Index dez (hex)	Name	Format (Offset)	Länge	Zugriff ¹	Standard Wert	Wertebereich	Bemerkung [Einheit]				
122 (0x7A)	In1 Funktion	UInt	8 Bit	rw	6	0 = Aus 1 = Sample halten 2 = Spitzenwert halten 3 = Tiefstwert halten 4 = Spitze-Spitze-Wert halten 5 = Mittelwert halten 6 = Teach 7 = Laser ein/aus 8 = Nullpunkt einlernen					
124 (0x7C)	Auswahl IO-Link COM	UInt	8 Bit	rw	1	0 = COM2 1 = COM3	Auswahl der IO-Link Datenrate (ACHTUNG: Änderung der Deviceld!! Aktiv nach Geräteeinstart)				
153 (0x99)	Temperatur	Int	16 Bit	ro							
190 (0xBE)	Betriebsstunden	Record	8 Byte	ro							
1 (0x01)	Sensor	Bit (32)	32 Bit	ro							
2 (0x02)	Laser	Bit (0)	32 Bit	ro							
204 (0xCC)	Findme	UInt	8 Bit	wo	0	0 = do nothing 1 = Stop 2 = Start					
205 (0xCD)	SICK Profil Version	String	4 Byte	ro							
212 (0xD4)	Verzugsmodus für Schaltausgang Q1	UInt	8 Bit	rw	4	0 = Einschaltverzögerung 1 = Ausschaltverzögerung 2 = Ein-/Ausschaltverzögerung 3 = 1 shot 4 = Aus					
213 (0xD5)	Verzugsmodus für Schaltausgang Q2	UInt	8 Bit	rw	4	0 = Einschaltverzögerung 1 = Ausschaltverzögerung 2 = Ein-/Ausschaltverzögerung 3 = 1 shot 4 = Aus					
214 (0xD6)	Zeit für Verzugsmodus Q1	UInt	16 Bit	rw	100						
215 (0xD7)	Zeit für Verzugsmodus Q2	UInt	16 Bit	rw	100						
228 (0xE4)	Display Benutzerlevel	UInt	8 Bit	rw	0	0 = Einfach 1 = Fortgeschritten					
229 (0xE5)	Display-Sprache	UInt	8 Bit	rw	1	0 = deutsch 1 = englisch	Auswahl der Display-sprache				
230 (0xE6)	Display Ein-/Ausschalten	UInt	8 Bit	rw	0	0 = auto 1 = Aus 2 = An					
231 (0xE7)	Display-Helligkeit	UInt	8 Bit	rw	48	0...100 = Helligkeit					
232 (0xE8)	Display-Ausrichtung	UInt	8 Bit	rw	0	0 = 0° 1 = 180°					
233 (0xE9)	Display-Invertierung	UInt	8 Bit	rw	0	0 = normal 1 = invertiert					
234 (0xEA)	Firmwareverifikation	Record ³	38 Byte	ro			Verifikatonschlüssel und Builddatum zur Verifikation aller Firmwarebestandteile				
1 (0x01)	Firmwareverifikation	Bit (152)	19 Byte	ro							
2 (0x02)	Firmware Build Datum	Bit (0)	19 Byte	ro							

Standardkommando							
Index dez (hex)	Name	Zugriff ¹	Wert	Name	Bemerkung [Einheit]		
2 (0x02)	Standardkommando	wo	65	SP1 (fern) Einzelwert Teach			
			66	SP2 (nah) Einzelwert Teach			
			130	Auslieferungszustand wiederherstellen			
			192	Kundeneinstellungen speichern			
			193	Kundeneinstellungen zurücksetzen			
			194	Zeroing ausführen			
			195	Zeroing zurücksetzen			

¹ro = read only, wo = write only, rw = read/write / ro = nur lesen, wo = nur schreiben, rw = lesen/schreiben

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

³Subindex access not supported / Subindexzugriff nicht unterstützt



8019237 0117

OD1000 COM3 8388904 1999297776 9239743 0117 (1.1.0)

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Canada Phone +1 905 771 14 44	România Phone +40 356 171 120
China Phone +86 400 121 000 +86 2153 6300	Russia Phone +7 495 775 09 30
Danmark Phone +45 45 82 64 00	Schweden Phone +41 41 619 29 39
Deutschland Phone +49 211 5361 301	Sveits Phone +41 41 619 29 39
España Phone +34 93 480 31 00	Sveizija Phone +358 (0)147 69 990
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ENGLISH

DEUTSCH