



8025125 0523

OD2000-0301T15

4194527375
9316374 1JW1

Australia Phone +61 3 9457 0800	Osterreich Phone +43 (0)22 36 62 28 8-0
Belgium/Luxembourg Phone +32 (0)2 468 35 66	Norge Phone +47 67 61 51 00
Brasil Phone +55 11 5215-4900	Polka Phone +48 22 837 40 50
Canada Phone +1 905 771 14 44	România Phone +40 356 171 150
China Phone +86 4000 121 000 +852 2553 6300	Russia Phone +7 495 775 09 30
Danmark Phone +45 45 82 64 00	Schweiz Phone +41 41 619 29 39
Deutschland Phone +49 211 5301 301	Slovenija Phone +35 6744 3732
España Phone +34 93 480 31 00	Svea Phone +41 41 619 29 39
France Phone +33 1 64 62 39 00	South Korea Phone +82 2 786 6321/4
Great Britain Phone +44 (0)1727 831521	Suomi Phone +358 9 25 15 800
India Phone +91-22-4033 8333	Sverige Phone +46 10 110 10 00
Israel Phone +972-4-6801000	Taiwan Phone +886-2-2375-0288
Italia Phone +39 02 27 43 41	Türkiye Phone +90 (216) 528 50 00
Japan Phone +81 (03) 5309 2112	United Arab Emirates Phone +971 (0) 4 5855 878
Magyarország Phone +36 1 371 2680	USA/Mexico Phone +1 952 941 6780
Niederland Phone +31 (0)30 229 25 44	

SICK AG, Erwin-Sick-Strasse 1, D.79183 Waldkirch

Please find detailed addresses and additional representatives and agencies in all major industrial nations at www.sick.com

821943

More representatives and agencies at www.sick.com - Subject to change without notice - The specified product features and technical data do not represent any guarantee.

Weitere Niederlassungen finden Sie unter www.sick.com - Irrtümer und Änderungen vorbehalten - Angegebene Produkteigenschaften und technische Daten stellen keine Garantieerklärung dar.

Plus de représentations et d'agences à l'adresse www.sick.com - Sujet à modification sans préavis - Les caractéristiques de produit et techniques indiquées ne constituent pas de déclaration de garantie.

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

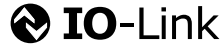
Flere repræsentanter og agenturer på www.sick.com - Med forbehold for ændringer og fejl - De angivne produkttegnelser og tekniske data udgør ikke nogen garanti erklæring.

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.

Meer vestigingen en vertegenwoordigingen vindt u op www.sick.com - Wijzigingen en correcties voorbehouden - Aangegeven producteigenschappen en technische gegevens vormen geen garantieverklaring.

Más representantes y agencias en 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 - 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

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	0.7 ms
Baudrate ²	COM3
Process Data Length (IN)	6 Byte
IODD version	V1.1.0
Valid for IO-Link version	1.1

2. Process data

Record: 6 Byte
Condition: ISDU: Process Data Select, Index: 120, Subindex: 0, Value: 0

Bitoffset																
Byte 0	Distance	47	46	45	44	43	42	41	40							
Type/Subindex	Integer 32															
Bitoffset																
Byte 1	Distance	39	38	37	36	35	34	33	32							
Type/Subindex	Integer 32															
Bitoffset																
Byte 2	Distance	31	30	29	28	27	26	25	24							
Type/Subindex	Integer 32															
Bitoffset																
Byte 3	Distance	23	22	21	20	19	18	17	16							
Type/Subindex	Integer 32															
Bitoffset																
Byte 4	Scale	15	14	13	12	11	10	9	8							
Type/Subindex	Integer 8															
Bitoffset																
Byte 5		7	6	5	4	3	2	1	0							
Type/Subindex		Boolean														
								Q2	Q1							
										3	Boolean					
Record: 6 Byte																
Condition: ISDU: Process Data Select, Index: 120, Subindex: 0, Value: 1																
Bitoffset																
Byte 0	Level	47	46	45	44	43	42	41	40							
Type/Subindex	Integer 32															
Bitoffset																
Byte 1	Level	39	38	37	36	35	34	33	32							
Type/Subindex	Integer 32															
Bitoffset																
Byte 2	Level	31	30	29	28	27	26	25	24							
Type/Subindex	Integer 32															
Bitoffset																
Byte 3	Level	23	22	21	20	19	18	17	16							
Type/Subindex	Integer 32															
Bitoffset																
Byte 4	Level	15	14	13	12	11	10	9	8							
Type/Subindex	Integer 32															
Bitoffset																
Byte 5	Level	7	6	5	4	3	2	1	0							
Type/Subindex		Boolean														
								Q2	Q1							
										2	Boolean					

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)



8025125 0523

OD2000-0301T15

4194527375
9316374 1JW1

Australia Phone +61 3 9457 0800	Osterreich Phone +43 (0)22 36 62 28 8-0
Belgium/Luxembourg Phone +32 (0)2 468 35 66	Norge Phone +47 67 61 50 00
Brasil Phone +55 11 5215-4900	Polka Phone +48 22 837 40 50
Canada Phone +1 805 771 14 44	Romania Phone +40 356 171 120
China Phone +86 4000 121 000 +852 2553 6300	Russia Phone +7 495 775 09 30
Danmark Phone +45 45 82 64 00	Schweiz Phone +41 41 619 29 39
Deutschland Phone +49 211 5301 301	Serbien Phone +386 (0)147 69 990
España Phone +34 93 480 31 00	South Africa Phone +27 11 472 3733
France Phone +33 1 64 62 39 00	Spain Phone +358 9 25 15 800
Great Britain Phone +44 (0)1727 831521	Sverige Phone +46 10 110 10 00
India Phone +91-22-4033 8333	Taiwan Phone +886 2 2375 4288
Israel Phone +972 4 6801000	Türkiye Phone +90 (216) 528 50 00
Italy Phone +39 02 27 43 41	United Arab Emirates Phone +971 (0)4 8865 878
Japan Phone +81 (03) 5309 2112	USA/Mexico Phone +1 952 941 6780
Magnetsveiz Phone +36 1 371 2680	
Niederland Phone +31 (0)30 229 25 44	

SICK AG, Erwin-Sick-Strasse 1, D-79183 Waldkirch

Please find detailed addresses and additional representatives and agencies in all major industrial nations at www.sick.com

02/1943

More representatives and agencies at www.sick.com - Subject to change without notice - The specified product features and technical data do not represent any guarantee.

Weitere Niederlassungen finden Sie unter www.sick.com - Irrtümer und Änderungen vorbehalten - Angegebene Produkteigenschaften und technische Daten stellen keine Garantieerklärung dar.

Plus de représentations et d'agences à l'adresse www.sick.com - Sujet à modification sans préavis - Les caractéristiques de produit et techniques indiquées ne constituent pas de déclaration de garantie.

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

Flere repræsentanter og agenturer på www.sick.com - Med forbehold for ændringer og fejl - De angivne produktdata 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.

Meer vestigingen en vertegenwoordigingen vindt u op www.sick.com - Wijzigingen en correcties voorbehouden - Aangegeven producteigenschappen en technische gegevens vormen geen garantieverklaring.

Más representantes y agencias en 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 - 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

Record: 6 Byte

Condition: ISDU: Process Data Select, Index: 120, Subindex: 0, Value: 2

Bitoffset									
Byte 0	Timer	47	46	45	44	43	42	41	40
Type/Subindex Integer 32									
Bitoffset									
Byte 1	Timer	39	38	37	36	35	34	33	32
Type/Subindex Integer 32									
Bitoffset									
Byte 2	Timer	31	30	29	28	27	26	25	24
Type/Subindex Integer 32									
Bitoffset									
Byte 3	Timer	23	22	21	20	19	18	17	16
Type/Subindex Integer 32									
Bitoffset									
Byte 4		15	14	13	12	11	10	9	8
Type/Subindex									
Bitoffset									
Byte 5		7	6	5	4	3	2	1	0
Type/Subindex									
							Q2	Q1	
							Boolean	2	Boolean
									3

Record: 6 Byte

Condition: ISDU: Process Data Select, Index: 120, Subindex: 0, Value: 3

Bitoffset									
Byte 0	Edge height	47	46	45	44	43	42	41	40
Type/Subindex Integer 32									
Bitoffset									
Byte 1	Edge height	39	38	37	36	35	34	33	32
Type/Subindex Integer 32									
Bitoffset									
Byte 2	Edge height	31	30	29	28	27	26	25	24
Type/Subindex Integer 32									
Bitoffset									
Byte 3	Edge height	23	22	21	20	19	18	17	16
Type/Subindex Integer 32									
Bitoffset									
Byte 4		15	14	13	12	11	10	9	8
Type/Subindex									
Bitoffset									
Byte 5		7	6	5	4	3	2	1	0
Type/Subindex									
							Q2	Q1	
							Boolean	2	Boolean
									3

3. Service data

The following ISDUs will not be saved via Data-Storage: Teach-in channel, Device specific tag, Sender configuration and Find me

IO-Link specific							
Index dec (hex)	Name	Format (Offset)	Length	Access ¹	Default Value	Value / Range	Remark [Unit]
12 (0x0C)	Device Access Locks	Record	2 Byte	rw			The access to the device parameters can be restricted by setting appropriate flags within this parameter.
2 (0x02)	Data Storage	Bool (1)	1 Bit	rw	0	true = Locked false = Unlocked	
4 (0x04)	Local User Interface	Bool (3)	1 Bit	rw	0	true = Locked false = Unlocked	
16 (0x10)	Vendor Name	String	7 Byte	ro	SICK AG		The vendor name that is assigned to a Vendor ID.
17 (0x11)	Vendor Text	String	64 Byte	ro	www.sick.com		Additional information about the vendor.
18 (0x12)	Product Name	String	18 Byte	ro	OD2000-0301T15		Complete product name.

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)



8025125 0523

OD2000-0301T15

4194527375
9316374 1JW1

<p>Australia Phone +61 3 9457 0800</p> <p>Belgium/Luxembourg Phone +32 (0)2 468 55 66</p> <p>Brazil Phone +55 11 5215-4900</p> <p>Canada Phone +1 905 771 14 44</p> <p>China Phone +86 4000 121 000 +852 2353 6300</p> <p>Denmark Phone +45 45 82 64 00</p> <p>Deutschland Phone +49 211 5301 301</p> <p>España Phone +34 93 480 31 00</p> <p>France Phone +33 1 64 62 39 00</p> <p>Great Britain Phone +44 (0)1727 831121</p> <p>India Phone +91-22-4033 8333</p> <p>Italy Phone +39 02 27 43 41</p> <p>Japan Phone +81 (03) 5309 2112</p> <p>Magnetsverige Phone +36 1 371 2680</p> <p>Niederland Phone +31 (0)30 229 25 44</p>	<p>Osterreich Phone +43 (0)22 36 62 28 8-0</p> <p>Norge Phone +47 67 61 50 00</p> <p>Polska Phone +48 22 837 40 50</p> <p>România Phone +40 356 171 120</p> <p>Russia Phone +7 495 775 09 30</p> <p>Schweiz Phone +41 41 619 29 39</p> <p>Sveits Phone +43 6744 3732</p> <p>Sveits Phone +386 (0)147 69 990</p> <p>South Africa Phone +27 11 472 3733</p> <p>South Korea Phone +82 2 786 6321/4</p> <p>Spain Phone +358 9 25 15 800</p> <p>Sverige Phone +46 10 110 10 00</p> <p>Taiwan Phone +886 2 2375 6288</p> <p>Türkiye Phone +90 (216) 528 50 00</p> <p>United Arab Emirates Phone +971 (0)4 5865 878</p> <p>USA/Mexico Phone +1 950 941 6780</p>
--	--

SICK AG, Erwin-Sick-Strasse 1, D 79183 Waldkirch

Please find detailed addresses and additional representatives and agencies in all major industrial nations at www.sick.com

More representatives and agencies at www.sick.com - Subject to change without notice - The specified product features and technical data do not represent any guarantee.

Weitere Niederlassungen finden Sie unter www.sick.com - Irrtümer und Änderungen vorbehalten! Angegebene Produkteigenschaften und technische Daten stellen keine Garantieerklärung dar.

Plus de représentations et d'agences à l'adresse www.sick.com - Sujet à modification sans préavis - Les caractéristiques de produit et techniques indiquées ne constituent pas de déclaration de garantie.

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

Flere representanter og agenturer på www.sick.com - Med forbehold for ændringer og fejl - De angivne produktdata og tekniske data udgør ikke nogen garantierklæring.

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.

Meer vestigingen en correcties voorbehouden - Aangegeven producteigenschappen en technische gegevens vormen geen garantieverklaring.

Más representantes y agencias en 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 - 如有更改，不另行通知 - 对所给出的产品特性和技术参数正确性不予保证。



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

ENGLISH

IO-Link specific							
Index dec (hex)	Name	Format (Offset)	Length	Access ¹	Default Value	Value / Range	Remark [Unit]
19 (0x13)	Product ID	String	7 Byte	ro	6074380		Vendor-specific product or type identification (e.g., item number or model number).
20 (0x14)	Product Text	String	45 Byte	ro	Displacement Sensor		Additional product information for the device.
21 (0x15)	Serial Number	String	11 Byte	ro			Unique, vendor-specific identifier of the individual device.
22 (0x16)	Hardware Revision	String	4 Byte	ro			Unique, vendor-specific identifier of the hardware revision of the individual device.
23 (0x17)	Firmware Revision	String	19 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	0		Number of errors that occurred in the technology-specific application since power on or restart.
36 (0x24)	Device Status	UInt	8 Bit	ro	0		Indicator for the current device condition and diagnosis state. 0 = Device is OK 1 = Maintenance required 2 = Out of specification 3 = Functional check 4 = Failure
37 (0x25)	Detailed Device Status	Array	9 Byte	ro			Octet String [3]
40 (0x28)	PD Input	PD In	6 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]
13 (0x0D)	Profile characteristic	Array	4 Byte	ro		Unsigned Integer16 [2]	Smart Sensore Profile Characteristics
14 (0x0E)	PDInput descriptor	Array	9 Byte	ro		Octet String [3]	Smart Sensor Profile Process data description (only valid for distance; see index 120)
15 (0x0F)	PDOutput descriptor	Array	3 Byte	ro		Octet String [1]	Smart Sensor Profile Process data description
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 Q = Q1 1 = Q1 2 = Q2
59 (0x3B)	Teach-in status	Record	1 Byte	ro			
1 (0x01)	Teach flag SP2 (near)	Bool (6)	1 Bit	ro	0		true = Teachpoint successfully taught false = Teachpoint not taught
2 (0x02)	Teach flag SP1 (far)	Bool (4)	1 Bit	ro	0		true = Teachpoint successfully taught false = Teachpoint not taught
3 (0x03)	Teach state	UInt (0)	4 Bit	ro	0		0 = IDLE 1 = SP1 success 2 = SP2 success 3 = SP12 success 4 = Wait for command 5 = Busy 6 = Reserved 7 = Error
60 (0x3C)	Q1 SP1 / SP2	Record	8 Byte	rw			
1 (0x01)	Q1 SP1 sensing range	Int (32)	32 Bit	rw	0	-5040000...5500000	[nm]
2 (0x02)	Q1 SP2 sensing range	Int (0)	32 Bit	rw	5000000	-5040000...5500000	[nm]
61 (0x3D)	Q1 configuration	Record	6 Byte	rw			
1 (0x01)	Q1 Switchpoint logic	UInt (40)	8 Bit	rw	0		0 = High-active (Not inverted) 1 = Low-active (Inverted)
2 (0x02)	Q1 Switchpoint mode	UInt (32)	8 Bit	rw	1		0 = Deactivated 1 = Single point (SP1) 2 = Window (SP1, SP2) 128 = Window ± set point offset (SP1) 130 = Alarm 131 = Signal level warning 132 = Edge height jump
3 (0x03)	Q1 Switchpoint hysteresis	UInt (0)	32 Bit	rw	100000	0...2147483647	
62 (0x3E)	Q2 SP1 / SP2	Record	8 Byte	rw			
1 (0x01)	Q2 SP1 sensing range	Int (32)	32 Bit	rw	-5000000	-5040000...5500000	[nm]
2 (0x02)	Q2 SP2 sensing range	Int (0)	32 Bit	rw	5000000	-5040000...5500000	[nm]
63 (0x3F)	Q2 configuration	Record	6 Byte	rw			
64 (0x40)	Device specific tag	String	32 Byte	rw	*****		

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)

SICK

8025125 0523

OD2000-0301T15

4194527375
9316374 1JW1

<p>Australia Phone +61 3 9457 0800</p> <p>Belgium/Luxembourg Phone +32 (0)2 468 55 66</p> <p>Brazil Phone +55 11 5215-4900</p> <p>Canada Phone +1 905 771 14 44</p> <p>China Phone +86 4000 121 000 +852 2353 6300</p> <p>Danmark Phone +45 45 82 64 00</p> <p>Deutschland Phone +49 211 5301 301</p> <p>España Phone +34 93 480 31 00</p> <p>France Phone +33 1 64 62 39 00</p> <p>Great Britain Phone +44 (0)1727 831521</p> <p>India Phone +91-22-4033 8333</p> <p>Italy Phone +39 02 27 43 41</p> <p>Japan Phone +81 (0)3 5309 2112</p> <p>Magnetsverige Phone +36 1 371 2680</p> <p>Niederland Phone +31 (0)30 229 25 44</p> <p>SICK AG, Erwin-Sick-Strasse 1, D 79183 Waldkirch</p>	<p>Osterreich Phone +43 (0)22 36 62 28 8-0</p> <p>Norge Phone +47 67 61 50 00</p> <p>Polska Phone +48 22 837 40 50</p> <p>România Phone +40 356 171 120</p> <p>Russia Phone +7 495 775 09 30</p> <p>Schweden Phone +41 41 619 29 39</p> <p>Singapore Phone +65 6744 3732</p> <p>Sveits Phone +386 (0)147 69 990</p> <p>South Africa Phone +27 11 472 3733</p> <p>South Korea Phone +82 2 786 6321/4</p> <p>Taiwan Phone +886 2 2375 6288</p> <p>Türkiye Phone +90 (216) 538 50 00</p> <p>United Arab Emirates Phone +971 (0)4 5855 878</p> <p>USA/Mexico Phone +1 952 941 6780</p>
---	--

Please find detailed addresses and additional representatives and agencies in all major industrial nations at www.sick.com

8211483

More representatives and agencies at www.sick.com - Subject to change without notice - The specified product features and technical data do not represent any guarantee.

Weitere Niederlassungen finden Sie unter www.sick.com - Irrtümer und Änderungen vorbehalten! Angegebene Produkteigenschaften und technische Daten stellen keine Garantieerklärung dar.

Plus de représentations et d'agences à l'adresse www.sick.com - Sujet à modification sans préavis - Les caractéristiques de produit et techniques indiquées ne constituent pas de déclaration de garantie.

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

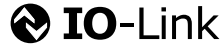
Fiere representanter og agenturer på www.sick.com - Med forbehold for ændringer og fejl - De arbrte produktgenskaber og tekniske data udgør ikke nogen garantierklæring.

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.

Meer vestigingen en correcties voorbehouden - Aangegeven producteigenschaften en technische gegevens vormen geen garantieverklaring.

Más representantes y agencias en www.sick.com - Sujeto a cambio sin preaviso - 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 - 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

SICK device specific							
Index dec (hex)	Name	Format (Offset)	Length	Access ¹	Default Value	Value / Range	Remark (Unit)
93 (0x5D)	Setup edge height jump Q1	Record	17 Byte	rw			With reference to index 61-2, 0x84 Edge Height Jump
1 (0x01)	Cycle offset	UInt (104)	32 Bit	rw	50	1...10000	
2 (0x02)	Min. height jump	Int (72)	32 Bit	rw	500000	0...2147483647	
3 (0x03)	Max. height jump	Int (40)	32 Bit	rw	2000000	0...2147483647	
4 (0x04)	Hysteresis	Int (8)	32 Bit	rw	100000	0...2147483647	
5 (0x05)	Jump direction	UInt (0)	8 Bit	rw	2	0 = Positive 1 = Negative 2 = Both edges	
94 (0x5E)	Setup edge height jump Q2	Record	17 Byte	rw			With reference to index 63-2, 0x84 Edge Height Jump
1 (0x01)	Cycle offset	UInt (104)	32 Bit	rw	50	1...10000	
2 (0x02)	Min. height jump	Int (72)	32 Bit	rw	500000	0...2147483647	
3 (0x03)	Max. height jump	Int (40)	32 Bit	rw	2000000	0...2147483647	
4 (0x04)	Hysteresis	Int (8)	32 Bit	rw	100000	0...2147483647	
5 (0x05)	Jump direction	UInt (0)	8 Bit	rw	2	0 = Positive 1 = Negative 2 = Both edges	
97 (0x61)	Sender configuration	UInt	8 Bit	rw	0	0 = Sender active 1 = Sender not active	
120 (0x78)	Process Data Select	UInt	8 Bit	rw	0	0 = Distance and switching outputs 1 = Level and switching outputs 2 = Timer and switching outputs 3 = Edge height and switching outputs	
121 (0x79)	Pin 2 configuration	UInt	8 Bit	rw	37	0 = Deactivated 34 = Switching signal Q2 37 = Current output 38 = Voltage output 40 = Switching signal /Q1	
122 (0x7A)	Pin 5 configuration	UInt	8 Bit	rw	16	0 = Deactivated 16 = Sender off 80 = Measured value 81 = Peak value 82 = Lowest value 83 = Peak-to-peak value 84 = Average value 85 = Zero point teach-in 86 = Auto peak value 87 = Auto lowest value 88 = Normal	
153 (0x99)	Temperature	Record	1 Byte	ro			Sensor-internal temperature
1 (0x01)	Current temperature	Int (0)	8 Bit	ro	0		[°C]
175 (0xAF)	Signal level	UInt	16 Bit	ro	0		Read current signal level (intensity value)
176 (0xB0)	Signal level threshold	UInt	16 Bit	rw	1700	0...5000	Sets threshold for Signal level warning
190 (0xBE)	Operating hours	Record	8 Byte	ro			
1 (0x01)	Operating hours sensor	UInt (32)	32 Bit	ro	0		[h]
2 (0x02)	Operating hours Laser	UInt (0)	32 Bit	ro	0		[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	1.01		
226 (0xE2)	System state	Record	2 Byte	ro			Communication and sensor application status
1 (0x01)	Input signal state Pin 5	Bool (7)	1 Bit	ro	0	true = External input HIGH false = External input LOW	
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	5 Byte	ro			Read current distance to object / distance to background
1 (0x01)	Distance	Int (8)	32 Bit	ro	0		[nm]
2 (0x02)	Distance qualifier	UInt (0)	8 Bit	ro	0	0 = Distance in range 1 = Distance over-run 2 = Distance under-run 3 = No distance information	
234 (0xEA)	Display settings	Record	5 Byte	rw			

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)



8025125 0523

OD2000-0301T15

4194527375
9316374 1JW1

Australia Phone +61 3 9457 0800	Osterreich Phone +43 (0)22 36 62 28 8-0
Belgium/Luxembourg Phone +32 (0)2 468 55 66	Norge Phone +47 67 61 50 00
Brazil Phone +55 11 5215-4900	Polka Phone +48 22 837 40 50
Canada Phone +1 905 771 14 44	România Phone +40 356 171 120
China (república) Phone +86 400 121 000 +86 21 633 6300	Rusia Phone +7 495 775 09 30
Denmark Phone +45 45 82 64 00	Schweiz Phone +41 41 619 29 39
Deutschland Phone +49 211 5361 301	Singapore Phone +65 6744 3732
España Phone +34 93 480 31 00	Sveits Phone +386 (0)147 69 990
France Phone +33 1 64 62 39 00	South Africa Phone +27 11 472 3733
Great Britain Phone +44 (0)1727 831211	South Korea Phone +82 2 786 6321/4
India Phone +91-22-4033 8333	Suomi Phone +358 9 25 15 800
Israel Phone +972 4 6801000	Sverige Phone +46 10 110 10 00
Italia Phone +39 02 27 43 41	Taiwan Phone +886 2 2375 6288
Japan Phone +81 (03) 5309 2112	Türkiye Phone +90 (216) 528 50 00
Magyarország Phone +36 1 371 2680	United Arab Emirates Phone +971 (0)4 5855 878
Niederland Phone +31 (0)30 229 25 44	USA/Mexico Phone +1 950 941 6780

Please find detailed addresses and additional representatives and agencies in all major industrial nations at www.sick.com

More representatives and agencies at www.sick.com - Subject to change without notice - The specified product features and technical data do not represent any guarantee.

Weitere Niederlassungen finden Sie unter www.sick.com - Irrtümer und Änderungen vorbehalten - Angegebene Produkteigenschaften und technische Daten stellen keine Garantieerklärung dar.

Plus de représentations et d'agences à l'adresse www.sick.com - Sujet à modification sans préavis - Les caractéristiques de produit et techniques indiquées ne constituent pas de déclaration de garantie.

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

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

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.

Meer vestigingen en correcties voorbehouden - Aangegeven producteigenschaften en technische gegevens vormen geen garantieverklaring.

Más representantes y agencias en 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 - 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

SICK device specific							
Index dec (hex)	Name	Format (Offset)	Length	Access ¹	Default Value	Value / Range	Remark (Unit)
1 (0x01)	Display brightness	UInt (32)	8 Bit	rw	30	10 = 10% 20 = 20% 30 = 30% 40 = 40% 50 = 50% 60 = 60% 70 = 70% 80 = 80% 90 = 90% 100 = 100%	
2 (0x02)	Eco mode	UInt (16)	16 Bit	rw	300	0 = Deactivated 10 = 10 s 20 = 20 s 60 = 60 s 300 = 300 s 1200 = 1200 s 3600 = 3600 s	By enabling the eco mode, display is deactivated 20 seconds after last key was pushed.
3 (0x03)	Turn display	UInt (8)	8 Bit	rw	0	0 = 0° 1 = 180°	This function turns the display figures by 180°.
4 (0x04)	Display language	UInt (0)	8 Bit	rw	1	1 = English 2 = German 6 = Spanish 7 = Chinese 8 = Japanese	
1085 (0x43D)	Q1 Timer 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)	Q2 Timer 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)	Q1 Timer setup	UInt	16 Bit	rw	1	1...30000	Q1 Timer setup time in ms [ms]
1088 (0x440)	Q2 Timer setup	UInt	16 Bit	rw	1	1...30000	Q2 Timer setup time in ms [ms]
1093 (0x445)	Pin 5 input logic	UInt	8 Bit	rw	0	0 = High-active (Not inverted) 1 = Low-active (Inverted)	
4367 (0x110F)	Region of interest	Record	8 Byte	rw			Setup for ROI near and far limit
1 (0x01)	ROI near	Int (32)	32 Bit	rw	-5040000	-5040000...5500000	Near limit value has to be smaller than far limit value [nm]
2 (0x02)	ROI far	Int (0)	32 Bit	rw	5500000	-5040000...5500000	Far limit value has to be higher than near limit value [nm]
4368 (0x1110)	Cycle time	UInt	16 Bit	rw	0	0 = Auto 133 = 0.133 ms 150 = 0.15 ms 200 = 0.2 ms 300 = 0.3 ms 500 = 0.5 ms 1000 = 1 ms 2000 = 2 ms 5000 = 5 ms	
4371 (0x1113)	Q1 tolerance	Int	32 Bit	rw	1000000	0...2147483647	SP1 tolerance [nm] [nm]
4372 (0x1114)	Q2 tolerance	Int	32 Bit	rw	1000000	0...2147483647	SP1 tolerance [nm] [nm]
4373 (0x1115)	Average filter	UInt	16 Bit	rw	128	1 = Deactivated 4 = 4 8 = 8 16 = 16 32 = 32 64 = 64 128 = 128 256 = 256 512 = 512	
4374 (0x1116)	Median filter	UInt	16 Bit	rw	31	0 = Deactivated 3 = 3 7 = 7 15 = 15 31 = 31	
4375 (0x1117)	Measurement direction	UInt	8 Bit	rw	0	0 = Positive 1 = Negative	

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)



8025125 0523

OD2000-0301T15

4194527375
9316374 1JW1

<p>Australia Phone +61 3 9457 0800</p> <p>Belgium, Luxembourg Phone +32 (0)2 468 55 66</p> <p>Brazil Phone +55 11 5215-4900</p> <p>Canada Phone +1 905 771 14 44</p> <p>China Phone +86 4000 121 000 +852 2353 6300</p> <p>Danmark Phone +45 45 82 64 00</p> <p>Deutschland Phone +49 211 5361 301</p> <p>España Phone +34 93 480 31 00</p> <p>France Phone +33 1 64 62 39 00</p> <p>Great Britain Phone +44 (0)1727 831211</p> <p>India Phone +91-22-4033 8333</p> <p>Israel Phone +972-4-6801000</p> <p>Italy Phone +39 02 27 43 41</p> <p>Japan Phone +81 (03) 5309 2112</p> <p>Magyarország Phone +36 1 371 2680</p> <p>Nedertland Phone +31 (0)30 229 25 44</p> <p>SICK AG, Erwin-Sick-Strasse 1, D 79183 Waldkirch</p>	<p>Osterreich Phone +43 (0)22 36 02 28 8-0</p> <p>Norge Phone +47 67 61 50 00</p> <p>Polska Phone +49 22 837 40 50</p> <p>România Phone +40 356 171 120</p> <p>Russia Phone +7 495 775 05 30</p> <p>Schweden Phone +41 41 619 29 39</p> <p>Sveits Phone +41 6744 3732</p> <p>Sveizera Phone +386 (0)147 69 990</p> <p>South Africa Phone +27 11 472 3733</p> <p>South Korea Phone +82 2 786 6321/4</p> <p>Suomi Phone +358 9 25 15 800</p> <p>Sverige Phone +46 10 110 10 00</p> <p>Taiwan Phone +886 2 2375 6288</p> <p>Türkiye Phone +90 (216) 528 50 00</p> <p>United Arab Emirates Phone +971 (0) 4 5855 878</p> <p>USA/Mexico Phone +1 952 941 6780</p>
--	--

Please find detailed addresses and additional representatives and agencies in all major industrial nations at www.sick.com

8211463

More representatives and agencies at www.sick.com - Subject to change without notice - The specified product features and technical data do not represent any guarantee.

Weitere Niederlassungen finden Sie unter www.sick.com - Irrtümer und Änderungen vorbehalten - Angegebene Produkteigenschaften und technische Daten stellen keine Garantieerklärung dar.

Plus de représentations et d'agences à l'adresse www.sick.com - Sujet à modification sans préavis - Les caractéristiques de produit et techniques indiquées ne constituent pas de déclaration de garantie.

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

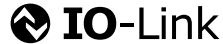
Flere repræsentanter og agenturer på www.sick.com - Med forbehold for ændringer og fejl - De angivne produkttegnelser og tekniske data udgør ikke nogen garantierklæring.

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.

Meer vestigingen en vertegenwoordigingen vindt u op www.sick.com - Wijzigingen en correcties voorbehouden - Aangegeven producteigenschappen en technische gegevens vormen geen garantieverklaring.

Más representantes y agencias en 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 - 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

SICK device specific							
Index dec (hex)	Name	Format (Offset)	Length	Access ¹	Default Value	Value / Range	Remark [Unit]
4376 (0x1118)	Measurement value offset	Int	32 Bit	rw	0	-1000000000...1000000000	[nm]
4377 (0x1119)	Error suppression time	UInt	32 Bit	rw	1	1...1000000	[ms]
4378 (0x111A)	Substitute value	Int	32 Bit	rw	2000000000	-2000000000...2000000000	[nm]
4379 (0x111B)	Error Mode	UInt	8 Bit	rw	0	0 = User-defined value 1 = Hold last value 2 = Hold last value + timer	
4389 (0x1125)	Error history	Array	130 Byte	ro	0	Unsigned Integer8 [130]	
4400 (0x1130)	Pin 5 debouncing	Bool	1 Bit	rw	0	true = Yes false = No	
4534 (0x11B6)	Firmware verification	Record	38 Byte	ro			Verification code and build date for verification of all firmware parts
1 (0x01)	Firmware verification	Str (152)	19 Byte	ro			
2 (0x02)	Firmware build date	Str (0)	19 Byte	ro			
16512 (0x4080)	MDC Descriptor	Record	11 Byte	ro			
1 (0x01)	Lower limit	Int (56)	32 Bit	ro	-5000000	-2147482880...2147482880	Lower value measurement range
2 (0x02)	Upper limit	Int (24)	32 Bit	ro	5000000	-2147482880...2147482880	Upper value measurement range
3 (0x03)	Unit code	UInt (8)	16 Bit	ro	1010		
4 (0x04)	Scale	Int (0)	8 Bit	ro	-9	-128...127	

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

Events			
Code dec (hex)	Name	Type	Remark [Unit]
16912 (0x4210)	Device temperature overrun	Warning	Clear source of heat
16928 (0x4220)	Device temperature underrun	Warning	Insulate device
30480 (0x7710)	Short circuit	Error	Check installation
36001 (0x8CA1)	New parameters	Notification	Parameters have been changed

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)