



8019119 0316
9242567 0316

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

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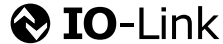
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Please note the validity of the additional operating instructions for automation functions

ENGLISH

1. Physical layer

SIO Modus	yes
Min Cycle Time	16000 µs
Baudrate	COM2
Process Data Length	32 Bit

2. Process data

Record: 4 Byte

Bitoffset																
Byte 0	Level	31	30	29	28	27	26	25	24							
Type/Subindex	Unsigned Integer 14															
Bitoffset																
Byte 1	Level	23	22	21	20	19	18	Reserved	17	16						
Type/Subindex	Unsigned Integer 14															
Bitoffset																
Byte 2	Reserved	15	14	13	12	11	10	9	8							
Type/Subindex	Integer 12															
Bitoffset																
Byte 3	Reserved	7	6	DeviceState	5	4	Q4	3	Q3	2	Q2	1	Q1	0		
Type/Subindex	Integer 12															

3. Service data

IO-Link specific	Index dec (hex)	Name	Format (Offset)	Length	Access ¹	Default Value	Value / Range	Remark [Unit]
	16 (0x10)	Vendor Name	String	64 Byte	ro	SICK AG		
	18 (0x12)	Product Name	String	64 Byte	ro			
	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	16 Byte	rw	***		

SICK device specific	Index dec (hex)	Name	Format (Offset)	Length	Access ¹	Default Value	Value / Range	Remark [Unit]
	64 (0x40)	Device Specific Tag	String	16 Byte	rw	***		
	90 (0x5A)	Part Number	String	8 Byte	ro	Part Number		
	100 (0x64)	SP1/FH1	Ulnt	16 Bit	rw	0...6005	Q1 SP1: Setpoint / FH1: High Limit Point	
	101 (0x65)	RP1/FL1	Ulnt	16 Bit	rw	0...6005	Q1 RP1: Resetpoint / FL1: Low Limit Point	
	102 (0x66)	OU1	Ulnt	8 Bit	rw	0 = Q1_Hno 1 = Q1_Hnc 2 = Q1_Fno 3 = Q1_Fnc 4 = Q1_Eno 5 = Q1_Enc	Q1 Function	
	103 (0x67)	SimQ1	Ulnt	8 Bit	rw	0 = Q1Norm 1 = Q1On 2 = Q1Off	Simulate Q1	
	104 (0x68)	SP2/FH2	Ulnt	16 Bit	rw	0...6005	Q2 SP2: Setpoint / FH2: High Limit Point	
	105 (0x69)	RP2/FL2	Ulnt	16 Bit	rw	0...6005	Q2 RP2: Resetpoint / FL2: Low Limit Point	
	106 (0x6A)	OU2	Ulnt	8 Bit	rw	0 = Q2_Hno 1 = Q2_Hnc 2 = Q2_Fno 3 = Q2_Fnc 4 = Q2_Eno 5 = Q2_Enc	Q2 Function	

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

DEUTSCH

1. Physikalische Schicht

SIO Modus	ja
Min. Zykluszeit	16000 µs
Baudrate	COM2
Prozessdatenlänge	32 Bit

2. Prozessdaten

Record: 4 Byte

Bitoffset																
Byte 0	Level	31	30	29	28	27	26	25	24							
Type/Subindex	Unsigned Integer 14															
Bitoffset																
Byte 1	Level	23	22	21	20	19	18	reserviert	17	16						
Type/Subindex	Unsigned Integer 14															
Bitoffset																
Byte 2	reserviert	15	14	13	12	11	10	9	8							
Type/Subindex	Integer 12															
Bitoffset																
Byte 3	reserviert	7	6	Systemzustand	5	4	Q4	3	Q3	2	Q2	1	Q1	0		
Type/Subindex	Integer 12															

3. Servicedaten

IO-Link spezifisch	Index dez (hex)	Name	Format (Offset)	Länge	Zugriff ¹	Standard Wert	Wertebereich	Bemerkung [Einheit]
	16 (0x10)	Herstellername	String	64 Byte	ro	SICK AG		
	18 (0x12)	Produktname	String	64 Byte	ro			
	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	16 Byte	rw	***		

SICK spezifisch	Index dez (hex)	Name	Format (Offset)	Länge	Zugriff ¹	Standard Wert	Wertebereich	Bemerkung [Einheit]
	64 (0x40)	Gerätespezifische Kennung	String	16 Byte	rw	***		
	90 (0x5A)	Teilenummer	String	8 Byte	ro	Teilenummer		
	100 (0x64)	SP1/FH1	Ulnt	16 Bit	rw	0...6005	Q1 SP1: Schaltpunkt / FH1: oberer Fenster- rand	
	101 (0x65)	RP1/FL1	Ulnt	16 Bit	rw	0...6005	Q1 RP1: Rückschalt- punkt / FL1: unterer Fenster- rand	
	102 (0x66)	OU1	Ulnt	8 Bit	rw	0 = Q1_Hno 1 = Q1_Hnc 2 = Q1_Fno 3 = Q1_Fnc 4 = Q1_Eno 5 = Q1_Enc	Q1 Funktion	
	103 (0x67)	SimQ1	Ulnt	8 Bit	rw	0 = Q1Norm 1 = Q1On 2 = Q1Off	Simuliere Q1	
	104 (0x68)	SP2/FH2	Ulnt	16 Bit	rw	0...6005	Q2 SP2: Schaltpunkt / FH2: oberer Fenster- rand	
	105 (0x69)	RP2/FL2	Ulnt	16 Bit	rw	0...6005	Q2 RP2: Rückschalt- punkt / FL2: unterer Fenster- rand	

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China Phone +86 400 121 000 +86 2163 6300	Russland Phone +7 495 775 09 30
Dänemark Phone +45 45 82 64 00	Schweiz Phone +41 41 619 29 39
Deutschland Phone +49 211 5361 301	Slowakei Phone +421 41 619 29 39
España Phone +34 93 480 31 00	South Korea Phone +82 2 786 6321/4
France Phone +33 1 64 62 39 00	Sri Lanka Phone +94 11 251 528 50 00
Great Britain Phone +44 (0)1727 831211	Taiwan Phone +886 2 2375 6288
India Phone +91 22 4033 8333	Türkei Phone +90 (216) 528 50 00
Israel Phone +972 4 6801000	United Arab Emirates Phone +971 (0) 4 5565 878
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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]
107 (0x6B)	TYP2	Ulnt	8 Bit	rw	0 = Q2_PNP 1 = Q2_NPN 2 = Q2_DRV	Q2 Output Driver	
108 (0x6C)	SimQ2	Ulnt	8 Bit	rw	0 = Q2Norm 1 = Q2On 2 = Q2Off	Simulate Q2	
109 (0x6D)	SP3/FH3	Ulnt	16 Bit	rw	0...6005	Q3 SP3: Setpoint / FH3: High Limit Point	
110 (0x6E)	RP3/FL3	Ulnt	16 Bit	rw	0...6005	Q3 RP3: Resetpoint / FL3: Low Limit Point	
111 (0x6F)	OU3	Ulnt	8 Bit	rw	0 = Q3_Hno 1 = Q3_Hnc 2 = Q3_Fno 3 = Q3_Fnc 4 = Q3_Eno 5 = Q3_Enc	Q3 Function	
112 (0x70)	TYP3	Ulnt	8 Bit	rw	0 = Q3_PNP 1 = Q3_NPN 2 = Q3_DRV	Q3 Output Driver	
113 (0x71)	SimQ3	Ulnt	8 Bit	rw	0 = Q3Norm 1 = Q3On 2 = Q3Off	Simulate Q3	
114 (0x72)	SP4/FH4	Ulnt	16 Bit	rw	0...6005	Q4 SP4: Setpoint / FH4: High Limit Point	
115 (0x73)	RP4/FL4	Ulnt	16 Bit	rw	0...6005	Q4 RP4: Resetpoint / FL4: Low Limit Point	
116 (0x74)	OU4	Ulnt	8 Bit	rw	0 = Q4_Hno 1 = Q4_Hnc 2 = Q4_Fno 3 = Q4_Fnc 4 = Q4_Eno 5 = Q4_Enc	Q4 Function	
117 (0x75)	TYP4	Ulnt	8 Bit	rw	0 = Q4_PNP 1 = Q4_NPN 2 = Q4_DRV	Q4 Output Driver	
118 (0x76)	SimQ4	Ulnt	8 Bit	rw	0 = Q4Norm 1 = Q4On 2 = Q4Off	Simulate Q4	
119 (0x77)	QAHIGH	Ulnt	16 Bit	rw	0...6005	QA High Limit Point	
120 (0x78)	QALOW	Ulnt	16 Bit	rw	0...6005	QA Low Limit Point	
121 (0x79)	QAPOL	Ulnt	8 Bit	rw	0 = QA_Nrm 1 = QA_Inv	QA Polarity	
122 (0x7A)	QATYPE	Ulnt	8 Bit	rw	0 = 4-20mA 1 = 0-10V 2 = Auto 3 = Auto 4-20mA 4 = Auto 0-10V	QA Output Driver	
123 (0x7B)	QAFail	Ulnt	8 Bit	rw	0 = 3.5mA 1 = 21.5mA	QA Failure State	

¹r = read only, w = write only, rw = read/write / r = nur lesen, w = nur schreiben, rw = lesen/schreiben

DEUTSCH

SICK spezifisch							
Index dez (hex)	Name	Format (Offset)	Länge	Zugriff ¹	Standard Wert	Wertebereich	Bemerkung [Einheit]
106 (0x6A)	OU2	Ulnt	8 Bit	rw	0 = Q2_Hno 1 = Q2_Hnc 2 = Q2_Fno 3 = Q2_Fnc 4 = Q2_Eno 5 = Q2_Enc	Q2 Funktion	
107 (0x6B)	TYP2	Ulnt	8 Bit	rw	0 = Q2_PNP 1 = Q2_NPN 2 = Q2_DRV	Q2 Ausgangsstufe	
108 (0x6C)	SimQ2	Ulnt	8 Bit	rw	0 = Q2Norm 1 = Q2On 2 = Q2Off	Simuliere Q2	
109 (0x6D)	SP3/FH3	Ulnt	16 Bit	rw	0...6005	Q3 SP3: Schaltpunkt / FH3: oberer Fenster- rand	
110 (0x6E)	RP3/FL3	Ulnt	16 Bit	rw	0...6005	Q3 RP3: Rückschalt- punkt / FL3: unterer Fenster- rand	
111 (0x6F)	OU3	Ulnt	8 Bit	rw	0 = Q3_Hno 1 = Q3_Hnc 2 = Q3_Fno 3 = Q3_Fnc 4 = Q3_Eno 5 = Q3_Enc	Q3 Funktion	
112 (0x70)	TYP3	Ulnt	8 Bit	rw	0 = Q3_PNP 1 = Q3_NPN 2 = Q3_DRV	Q3 Ausgangsstufe	
113 (0x71)	SimQ3	Ulnt	8 Bit	rw	0 = Q3Norm 1 = Q3On 2 = Q3Off	Simuliere Q3	
114 (0x72)	SP4/FH4	Ulnt	16 Bit	rw	0...6005	Q4 SP4: Schaltpunkt / FH4: oberer Fenster- rand	
115 (0x73)	RP4/FL4	Ulnt	16 Bit	rw	0...6005	Q4 RP4: Rückschalt- punkt / FL4: unterer Fenster- rand	
116 (0x74)	OU4	Ulnt	8 Bit	rw	0 = Q4_Hno 1 = Q4_Hnc 2 = Q4_Fno 3 = Q4_Fnc 4 = Q4_Eno 5 = Q4_Enc	Q4 Funktion	
117 (0x75)	TYP4	Ulnt	8 Bit	rw	0 = Q4_PNP 1 = Q4_NPN 2 = Q4_DRV	Q4 Ausgangsstufe	
118 (0x76)	SimQ4	Ulnt	8 Bit	rw	0 = Q4Norm 1 = Q4On 2 = Q4Off	Simuliere Q4	
119 (0x77)	QAHIGH	Ulnt	16 Bit	rw	0...6005	QA Oberer Signalpunkt	
120 (0x78)	QALOW	Ulnt	16 Bit	rw	0...6005	QA Unterer Signalpunkt	
121 (0x79)	QAPOL	Ulnt	8 Bit	rw	0 = QA_Nrm 1 = QA_Inv	QA Polarität	



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Deutschland Phone +49 211 5301 301	Schweden Phone +46 744 3732
España Phone +34 93 480 31 00	South Africa Phone +27 11 472 3733
France Phone +33 1 64 62 39 00	South Korea Phone +82 2 786 6321/4
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SICK device specific						
Index dec (hex)	Name	Format (Offset)	Length	Access ¹	Default Value	Value / Range Remark [Unit]
124 (0x7C)	SimCur	UInt	8 Bit	rw	0 = SimOff 1 = 3.5mA 2 = 3.8mA 3 = 4.0mA 4 = 10.0mA 5 = 12.0mA 6 = 18.0mA 7 = 20.0mA 8 = 20.5mA 9 = 21.5mA	Simulate QA Current
125 (0x7D)	SimVol	UInt	8 Bit	rw	0 = SimOff 1 = 0.0V 2 = 2.0V 3 = 4.0V 4 = 6.0V 5 = 8.0V 6 = 10.0V 7 = 10.5V	Simulate QA Voltage
126 (0x7E)	DspVal	UInt	8 Bit	rw	0 = Distan 1 = Qa-Perc 2 = QaBarG 3 = QaSign 4 = QxSign	Display Mode
127 (0x7F)	Filter	UInt	8 Bit	rw	0 = Off 4 = 400ms 6 = 600ms 10 = 1000ms 14 = 1400ms 20 = 2s 50 = 5s 100 = 10s	Averaging Filter
128 (0x80)	SimLev	UInt	8 Bit	rw	0 = SimOff 1 = 0 % 2 = 25 % 3 = 50 % 4 = 75 % 5 = 100 %	Simulate Level
205 (0xCD)	Profile Version	String	4 Byte	ro		
300 (0x12C)	Lock	Bool	1 Bit	rw	false = inactive true = active	Menu Password Protection
301 (0x12D)	Unit	UInt	8 Bit	rw	0 = mm 1 = inch	Display Level Unit
302 (0x12E)	Offset	UInt	16 Bit	rw	0	0...3000 Level Offset
303 (0x12F)	Mode	UInt	8 Bit	rw	0 = Pulse 1 = Foam	Algorithm Mode
304 (0x130)	MeasMd	UInt	8 Bit	rw	0 = mode-1 1 = HiSpd 2 = HiAcc 3 = mode-2	Measuring Mode
305 (0x131)	MaxCoL	UInt	8 Bit	rw	2 = 2cm/s 5 = 5cm/s 10 = 10cm/s 50 = Any-Speed	Maximum Change of Level
310 (0x136)	TrsHld	UInt	16 Bit	rw	100	20...500 Threshold for Pulse Detection
311 (0x137)	CalRng	UInt	16 Bit	rw	6005	95...6005 AutCal Range
312 (0x138)	MaskZn	UInt	16 Bit	rw	0	0...6005 Masked Zone Range
313 (0x139)	MaskTr	UInt	16 Bit	rw	50	10...500 Masking Threshold
320 (0x140)	Limit	UInt	8 Bit	rw	90	20...100 Foam Algorithm Detection Limit
330 (0x14A)	Length	UInt	16 Bit	rw	95...6005	Probe Length
331 (0x14B)	CblLen	UInt	16 Bit	rw	200...350	Coaxial Cable Length

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

DEUTSCH						
SICK spezifisch						
Index dez (hex)	Name	Format (Offset)	Länge	Zugriff ¹	Standard Wert	Wertebereich Bemerkung [Einheit]
122 (0x7A)	QATYPE	UInt	8 Bit	rw	0 = 4-20mA 1 = 0-10V 2 = Auto 3 = Auto 4-20mA 4 = Auto 0-10V	QA Umschaltung Strom/Spannungsausgang
123 (0x7B)	QAFail	UInt	8 Bit	rw	0 = 3.5mA 1 = 21.5mA	QA Fehlerzustand
124 (0x7C)	SimCur	UInt	8 Bit	rw	0 = SimOff 1 = 3.5mA 2 = 3.8mA 3 = 4.0mA 4 = 10.0mA 5 = 12.0mA 6 = 18.0mA 7 = 20.0mA 8 = 20.5mA 9 = 21.5mA	Simuliere QA Stromausgang
125 (0x7D)	SimVol	UInt	8 Bit	rw	0 = SimOff 1 = 0.0V 2 = 2.0V 3 = 4.0V 4 = 6.0V 5 = 8.0V 6 = 10.0V 7 = 10.5V	Simuliere QA Spannungsausgang
126 (0x7E)	DspVal	UInt	8 Bit	rw	0 = Distan 1 = Qa-Perc 2 = Qa-BarG 3 = QaSign 4 = QxSign	Display Anzeige
127 (0x7F)	Filter	UInt	8 Bit	rw	0 = Off 4 = 400ms 6 = 600ms 10 = 1000ms 14 = 1400ms 20 = 2s 50 = 5s 100 = 10s	Mittelwertfilter
128 (0x80)	SimLev	UInt	8 Bit	rw	0 = SimOff 1 = 0 % 2 = 25 % 3 = 50 % 4 = 75 % 5 = 100 %	Simuliere Füllstand
205 (0xCD)	Profil Version	String	4 Byte	ro		
300 (0x12C)	Lock	Bool	1 Bit	rw	false = inaktiv true = aktiv	Menü Passwortschutz
301 (0x12D)	Unit	UInt	8 Bit	rw	0 = mm 1 = inch	Display Einheit Füllstand
302 (0x12E)	Offset	UInt	16 Bit	rw	0	0...3000 Level Offset
303 (0x12F)	Mode	UInt	8 Bit	rw	0 = Pulse 1 = Foam	Algorithmus Modus
304 (0x130)	MeasMd	UInt	8 Bit	rw	0 = mode-1 1 = HiSpd 2 = HiAcc 3 = mode-2	Messmodus
305 (0x131)	MaxCoL	UInt	8 Bit	rw	2 = 2cm/s 5 = 5cm/s 10 = 10cm/s 50 = Any-Speed	Maximale Änderungsrate des Füllstands
310 (0x136)	TrsHld	UInt	16 Bit	rw	100	20...500 Schwelle für Pulserkennung



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Deutschland Phone +49 211 5301 301	Singapur Phone +65 6744 3732
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Great Britain Phone +44 (0)1727 831521	Sri Lanka Phone +91 22 4033 8333
India Phone +91 22 4033 8333	Südkorea Phone +82 2 2375 6288
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Japan Phone +81 (03) 5309 2112	USA/Mexico Phone +1 (954) 941 6780
Magnesium Phone +36 1 271 2680	
Niederland Phone +31 (0)30 229 25 44	

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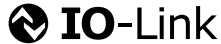
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Please note the validity of the additional operating instructions for automation functions

ENGLISH

SICK device specific							
Index dec (hex)	Name	Format (Offset)	Length	Access ¹	Default Value	Value / Range	Remark [Unit]
331 (0x14B)	CblLen	UInt	16 Bit	rw	200...350 0	Coaxial Cable Length	
332 (0x14C)	Type	UInt	8 Bit	rw	0 = Rod 1 = Rope	Probe Type	
342 (0x156)	CalSta	UInt	8 Bit	ro	0 = NoCal 1 = AutCal 2 = FomCal 3 = CalMis	Calibration Status	
350 (0x15E)	SigQa1	UInt	8 Bit	ro		Signal Quality 1	
351 (0x15F)	SigQa2	UInt	8 Bit	ro		Signal Quality 2	
352 (0x160)	SigQa3	UInt	8 Bit	ro		Signal Quality 3	
360 (0x168)	SupplyVoltage	UInt	16 Bit	ro		Sensor Supply Voltage [V]	
361 (0x169)	SensorTemperature	Int	16 Bit	ro		Internal Electronics Temperature [°C]	
362 (0x16A)	PowerUpCounter	UInt	32 Bit	ro		Power Up Counter	
363 (0x16B)	OperatingTime	UInt	32 Bit	ro		Run Time [s]	
364 (0x16C)	SystemMonitor	Record	4 Byte	ro		System Monitor	
1 (0x01)	SystemState	Bit (0)	2 Bit	ro		0 = FAILURE 1 = WARNING 2 = OK	
2 (0x02)	SC-Q2	Bit (2)	1 Bit	ro		true = active false = -	
3 (0x03)	SC-Q3	Bit (3)	1 Bit	ro		true = Active false = -	
4 (0x04)	SC-Q4	Bit (4)	1 Bit	ro		true = Active false = -	
5 (0x05)	SC-Qa	Bit (5)	1 Bit	ro		true = Active false = -	
6 (0x06)	QaOvf	Bit (6)	1 Bit	ro		true = Active false = -	
7 (0x07)	reserved	Bit (7)	1 Bit	ro		true = Active false = -	
8 (0x08)	reserved	Bit (8)	1 Bit	ro		true = Active false = -	
9 (0x09)	InvEc	Bit (9)	1 Bit	ro		true = Active false = -	
10 (0x0A)	Cable	Bit (10)	1 Bit	ro		true = Active false = -	
11 (0x0B)	Range	Bit (11)	1 Bit	ro		true = Active false = -	
12 (0x0C)	MaskZ	Bit (12)	1 Bit	ro		true = Active false = -	
13 (0x0D)	Temp	Bit (13)	1 Bit	ro		true = Active false = -	
14 (0x0E)	reserved	Bit (14)	1 Bit	ro		true = Active false = -	
15 (0x0F)	reserved	Bit (15)	1 Bit	ro		true = Active false = -	
16 (0x10)	reserved	Bit (16)	1 Bit	ro		true = Active false = -	
17 (0x11)	reserved	Bit (17)	1 Bit	ro		true = Active false = -	
18 (0x12)	reserved	Bit (18)	1 Bit	ro		true = Active false = -	
19 (0x13)	reserved	Bit (19)	1 Bit	ro		true = Active false = -	
20 (0x14)	reserved	Bit (20)	1 Bit	ro		true = Active false = -	
365 (0x16D)	MinimumLevel	UInt	16 Bit	ro	0...6005	Minimum Level Since Power Up / Last Reset	
366 (0x16E)	MaximumLevel	UInt	16 Bit	ro	0...6005	Maximum Level Since Power Up / Last Reset	
380 (0x17C)	InputData	Array	32 Byte	rw		Unsigned Integer8 [32]	Input Data
381 (0x17D)	OutputData	Array	32 Byte	ro		Unsigned Integer8 [32]	Output Data
382 (0x17E)	UniqueID	Array	8 Byte	ro		Unsigned Integer8 [8]	Unique Device ID
383 (0x17F)	Reserved	Array	8 Byte	rw		Unsigned Integer8 [8]	Reserved

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

DEUTSCH

SICK spezifisch							
Index dez (hex)	Name	Format (Offset)	Länge	Zugriff ¹	Standard Wert	Wertebereich	Bemerkung [Einheit]
311 (0x137)	CalRng	UInt	16 Bit	rw	6005	95...6005	AutCal Einlertiefe
312 (0x138)	MaskZn	UInt	16 Bit	rw	0	0...6005	Größe der Maskierten Zone
313 (0x139)	MaskTr	UInt	16 Bit	rw	50	10...500	Schwelle der Maskierten Zone
320 (0x140)	Limit	UInt	8 Bit	rw	90	20...100	Schaumalgorithmus Erkennungslimit
330 (0x14A)	Length	UInt	16 Bit	rw	95...6005		Sondenlänge
331 (0x14B)	CblLen	UInt	16 Bit	rw	200...350 0		Koaxialkabellänge
332 (0x14C)	Type	UInt	8 Bit	rw	0 = Stabsonde 1 = Seilsonde		Sondentyp
342 (0x156)	CalSta	UInt	8 Bit	ro	0 = NoCal 1 = AutCal 2 = FomCal 3 = CalMis		Kalibrationsstatus
350 (0x15E)	SigQa1	UInt	8 Bit	ro			Signalqualität 1
351 (0x15F)	SigQa2	UInt	8 Bit	ro			Signalqualität 2
352 (0x160)	SigQa3	UInt	8 Bit	ro			Signalqualität 3
360 (0x168)	Versorgungsspannung	UInt	16 Bit	ro			Versorgungsspannung des Sensors [V]
361 (0x169)	Elektroniktemperatur	Int	16 Bit	ro			Elektroniktemperatur [°C]
362 (0x16A)	Einschaltzähler	UInt	32 Bit	ro			Einschaltzähler
363 (0x16B)	Betriebszeit	UInt	32 Bit	ro			Betriebszeit [s]
364 (0x16C)	Systemmonitor	Record	4 Byte	ro			Systemmonitor
1 (0x01)	Systemzustand	Bit (0)	2 Bit	ro		0 = FEHLER 1 = WARNUNG 2 = OK	
2 (0x02)	SC-Q2	Bit (2)	1 Bit	ro		true = aktiv false = -	
3 (0x03)	SC-Q3	Bit (3)	1 Bit	ro		true = aktiv false = -	
4 (0x04)	SC-Q4	Bit (4)	1 Bit	ro		true = aktiv false = -	
5 (0x05)	SC-Qa	Bit (5)	1 Bit	ro		true = aktiv false = -	
6 (0x06)	QaOvf	Bit (6)	1 Bit	ro		true = aktiv false = -	
7 (0x07)	reserviert	Bit (7)	1 Bit	ro		true = aktiv false = -	
8 (0x08)	reserviert	Bit (8)	1 Bit	ro		true = aktiv false = -	
9 (0x09)	InvEc	Bit (9)	1 Bit	ro		true = aktiv false = -	
10 (0x0A)	Cable	Bit (10)	1 Bit	ro		true = aktiv false = -	
11 (0x0B)	Range	Bit (11)	1 Bit	ro		true = aktiv false = -	
12 (0x0C)	MaskZ	Bit (12)	1 Bit	ro		true = aktiv false = -	
13 (0x0D)	Temp	Bit (13)	1 Bit	ro		true = aktiv false = -	
14 (0x0E)	reserviert	Bit (14)	1 Bit	ro		true = aktiv false = -	
15 (0x0F)	reserviert	Bit (15)	1 Bit	ro		true = aktiv false = -	
16 (0x10)	reserviert	Bit (16)	1 Bit	ro		true = aktiv false = -	
17 (0x11)	reserviert	Bit (17)	1 Bit	ro		true = aktiv false = -	
18 (0x12)	reserviert	Bit (18)	1 Bit	ro		true = aktiv false = -	
19 (0x13)	reserviert	Bit (19)	1 Bit	ro		true = aktiv false = -	
20 (0x14)	reserviert	Bit (20)	1 Bit	ro		true = aktiv false = -	
365 (0x16D)	Minimaler Füllstand	UInt	16 Bit	ro	0...6005		Minimaler Füllstand seit letztem Einschalten / letztem Reset
366 (0x16E)	Maximaler Füllstand	UInt	16 Bit	ro	0...6005		Maximaler Füllstand seit letztem Einschalten / letztem Reset



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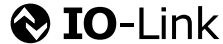
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Please note the validity of the additional operating instructions for automation functions

ENGLISH

Standard command					
Index dec (hex)		Access ¹	Value	Name	Remark [Unit]
2 (0x02)	Standard Command	wo	130	Restore Factory Settings	
			165	Pulse_AutCal	
			166	Pulse_AutoTune	
			167	Pulse_Reset	
			170	Foam_CalEmp	
			171	Foam_CalMed	
			172	Foam_Reset	
			180	Reserved0	
			190	Reset_LevelMinMax	
			200	Reserved1	
			201	Reserved2	
			202	Reserved3	
			203	Reserved4	

DEUTSCH

SICK spezifisch							
Index dez (hex)	Name	Format (Offset)	Länge	Zugriff ¹	Standard Wert	Wertebereich	Bemerkung [Einheit]
380 (0x17C)	Eingabedaten	Array	32 Byte	rw	Unsigned Integer8 [32]	Eingabedaten	
381 (0x17D)	Ergebnis	Array	32 Byte	ro	Unsigned Integer8 [32]	Ergebnis	
382 (0x17E)	Eindeutige ID	Array	8 Byte	ro	Unsigned Integer8 [8]	Eindeutige Geräteerkennung	
383 (0x17F)	reserviert	Array	8 Byte	rw	Unsigned Integer8 [8]	reserviert	

Standardkommando						
Index dez (hex)		Zugriff ¹	Wert	Name	Bemerkung [Einheit]	
2 (0x02)	Standardkommando	wo	130	Auslieferungszustand wiederherstellen		
			165	Pulse_AutCal		
			166	Pulse_AutoTune		
			167	Pulse_Reset		
			170	Foam_CalEmp		
			171	Foam_CalMed		
			172	Foam_Reset		
			180	Reserviert0		
			190	Reset_LevelMinMax		
			200	Reserviert1		
			201	Reserviert2		
			202	Reserviert3		
			203	Reserviert4		

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