



8020514 0117

CFP

608793456
9254686 0117

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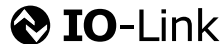
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Please note the validity of the additional operating instructions for automation functions

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	4600 µs
Baudrate	COM2
Process Data Length	32 Bit

2. Process data

Level in 0.1mm
Temperature in 0.1 °C

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	Temperature	17	16						
Type/Subindex	Unsigned Integer 14															
Bitoffset																
Byte 2	Temperature	15	14	13	12	11	10	9	8							
Type/Subindex	Integer 12															
Bitoffset																
Byte 3	Temperature	7	6	DeviceState	5	4	3	2	1	0						
Type/Subindex	Integer 12															

3. Service data

The following ISDUs will not be saved via Data-Storage: Device Access Locks, SimQ1, SimQ2, SimQ3, SimQ4, SimQaCurrent, SimQaVoltage, SimQbCurrent, SimQbVoltage, SimLevel, SimTemp and Special Action Scratchpad

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			
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			
19 (0x13)	Product ID	String	64 Byte	ro			
20 (0x14)	Product Text	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	***		
36 (0x24)	Device Status	UInt	8 Bit	ro		0 = Device is OK 1 = Maintenance required 2 = Out of specification 3 = Functional check 4 = Failure 5...255 = Reserved	
40 (0x28)	Process Data Input	PD In	4 Byte	ro			

SICK device specific							
Index dec (hex)	Name	Format (Offset)	Length	Access ¹	Default Value	Value / Range	Remark [Unit]
64 (0x40)	Device Specific Tag	String	32 Byte	rw	***		
90 (0x5A)	Part Number	String	8 Byte	ro	Part Number		
175 (0xAF)	Health Level	UInt	8 Bit	ro	0...100	[%]	
190 (0xBE)	OpTimer	UInt	32 Bit	ro	[s]		

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

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	4600 µs
Baudrate	COM2
Prozessdatenlänge	32 Bit

2. Prozessdaten

Füllstand in 0.1mm
Temperatur in 0.1 °C

Record: 4 Byte

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

3. Servicedaten

Die folgenden ISDUs werden nicht über Data-Storage gesichert: Gerätezugriffssperren, SimQ1, SimQ2, SimQ3, SimQ4, SimQaCurrent, SimQaVoltage, SimQbCurrent, SimQbVoltage, SimLevel, SimTemp und Sonderfunktion Speicher

IO-Link spezifisch									
Index dez (hex)	Name	Format (Offset)	Länge	Zugriff ¹	Standard Wert	Wertebereich	Bemerkung [Einheit]		
12 (0x0C)	Gerätezugriffssperren	Record	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					
19 (0x13)	Produkt-ID	String	64 Byte	ro					
20 (0x14)	Produkttext	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	***				
36 (0x24)	Gerätestatus	UInt	8 Bit	ro		0 = Gerät ist OK 1 = Wartung erforderlich 2 = Außerhalb der Spezifikation 3 = Funktionsprüfung 4 = Fehler 5...255 = Reserviert			
40 (0x28)	Prozessdaten Eingang	PD In	4 Byte	ro					

SICK spezifisch									
Index dez (hex)	Name	Format (Offset)	Länge	Zugriff ¹	Standard Wert	Wertebereich	Bemerkung [Einheit]		
64 (0x40)	Gerätespezifische Kennung	String	32 Byte	rw	***				
90 (0x5A)	Teilenummer	String	8 Byte	ro	Teilenummer				
175 (0xAF)	Health Level	UInt	8 Bit	ro	0...100	[%]			



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Canada Phone +1 905 771 14 44	România Phone +40 356 171 120
China Phone +86 400 121 000 +86 2163 6300	Russia Phone +7 495 775 09 30
Denmark Phone +45 45 82 64 00	Schweiz Phone +41 41 619 29 39
Deutschland Phone +49 211 5301 301	Singapore Phone +65 6744 3732
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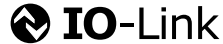
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ENGLISH							
SICK device specific							
Index dec (hex)	Name	Format (Offset)	Length	Access ¹	Default Value	Value / Range	Remark [Unit]
205 (0xCD)	Profile Version	String	4 Byte	ro			
260 (0x104)	Mode1	UInt	8 Bit	rw	0 = Output 1 = Input		
262 (0x106)	Typ1	UInt	8 Bit	rw	2 = NPN 3 = PNP 4 = DRV	Output Driver	
265 (0x109)	Actio1	UInt	8 Bit	rw	1 = min-Level 2 = max-Level 3 = setError	Input Action	
267 (0x10B)	Proc1	UInt	8 Bit	rw	0 = Level 3 = Temperature 4 = Status	process parameter	
268 (0x10C)	Out1	UInt	8 Bit	rw	0 = Hysteresis 1 = Window	Mode	
269 (0x10D)	Stat1	UInt	8 Bit	rw	0 = Failure		
270 (0x10E)	SP1/FH1 (Level)	UInt	16 Bit	rw	0...4000	Switching Point [mm]	
271 (0x10F)	RP1/FL1 (Level)	UInt	16 Bit	rw	0...4000	Reset Point [mm]	
272 (0x110)	SP1/FH1 (Temperature)	Int	16 Bit	rw	-20...80	Switching Point [°C]	
273 (0x111)	RP1/FL1 (Temperature)	Int	16 Bit	rw	-20...80	Reset Point [°C]	
278 (0x116)	Pol1	UInt	8 Bit	rw	0 = normally open 1 = normally closed		
279 (0x117)	SimQ1	UInt	8 Bit	rw	0 = Off 1 = On 255 = Norm	Simulate Q1	
290 (0x122)	Mode2	UInt	8 Bit	rw	0 = Output 1 = Input		
292 (0x124)	Typ2	UInt	8 Bit	rw	2 = NPN 3 = PNP 4 = DRV	Output Driver	
295 (0x127)	Actio2	UInt	8 Bit	rw	1 = min-Level 2 = max-Level 3 = setError	Input Action	
297 (0x129)	Proc2	UInt	8 Bit	rw	0 = Level 3 = Temperature 4 = Status	process parameter	
298 (0x12A)	Out2	UInt	8 Bit	rw	0 = Hysteresis 1 = Window	Mode	
299 (0x12B)	Stat2	UInt	8 Bit	rw	0 = Failure		
300 (0x12C)	SP2/FH1 (Level)	UInt	16 Bit	rw	0...4000	Switching Point [mm]	
301 (0x12D)	RP2/FL2 (Level)	UInt	16 Bit	rw	0...4000	Reset Point [mm]	
302 (0x12E)	SP2/FH1 (Temperature)	Int	16 Bit	rw	-20...80	Switching Point [°C]	
303 (0x12F)	RP2/FL2 (Temperature)	Int	16 Bit	rw	-20...80	Reset Point [°C]	
308 (0x134)	Pol2	UInt	8 Bit	rw	0 = normally open 1 = normally closed		
309 (0x135)	SimQ2	UInt	8 Bit	rw	0 = Off 1 = On 255 = Norm	Simulate Q2	

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]	
190 (0xBE)	Betriebsekundenzähler	UInt	32 Bit	ro	[s]			
205 (0xCD)	Profil Version	String	4 Byte	ro				
260 (0x104)	Mode1	UInt	8 Bit	rw	0 = Ausgang 1 = Eingang			
262 (0x106)	Typ1	UInt	8 Bit	rw	2 = NPN 3 = PNP 4 = DRV	Ausgangsstufe		
265 (0x109)	Actio1	UInt	8 Bit	rw	1 = min-Level 2 = max-Level 3 = setError	Eingangsfunktion		
267 (0x10B)	Proc1	UInt	8 Bit	rw	0 = Füllstand 3 = Temperatur 4 = Status	Prozessgröße		
268 (0x10C)	Out1	UInt	8 Bit	rw	0 = Hysteresis 1 = Fenster	Modus		
269 (0x10D)	Stat1	UInt	8 Bit	rw	0 = Fehler			
270 (0x10E)	SP1/FH1 (Füllstand)	UInt	16 Bit	rw	0...4000	Schaltpunkt [mm]		
271 (0x10F)	RP1/FL1 (Füllstand)	UInt	16 Bit	rw	0...4000	Rückschaltpunkt [mm]		
272 (0x110)	SP1/FH1 (Temperatur)	Int	16 Bit	rw	-20...80	Schaltpunkt [°C]		
273 (0x111)	RP1/FL1 (Temperatur)	Int	16 Bit	rw	-20...80	Rückschaltpunkt [°C]		
278 (0x116)	Pol1	UInt	8 Bit	rw	0 = Schließer 1 = Öffner			
279 (0x117)	SimQ1	UInt	8 Bit	rw	0 = Off 1 = On 255 = Norm	Simuliere Q1		
290 (0x122)	Mode2	UInt	8 Bit	rw	0 = Ausgang 1 = Eingang			
292 (0x124)	Typ2	UInt	8 Bit	rw	2 = NPN 3 = PNP 4 = DRV	Ausgangsstufe		
295 (0x127)	Actio2	UInt	8 Bit	rw	1 = min-Level 2 = max-Level 3 = setError	Eingangsfunktion		
297 (0x129)	Proc2	UInt	8 Bit	rw	0 = Füllstand 3 = Temperatur 4 = Status	Prozessgröße		
298 (0x12A)	Out2	UInt	8 Bit	rw	0 = Hysteresis 1 = Fenster	Modus		
299 (0x12B)	Stat2	UInt	8 Bit	rw	0 = Fehler			
300 (0x12C)	SP2/FH1 (Füllstand)	UInt	16 Bit	rw	0...4000	Schaltpunkt [mm]		
301 (0x12D)	RP2/FL2 (Füllstand)	UInt	16 Bit	rw	0...4000	Rückschaltpunkt [mm]		
302 (0x12E)	SP2/FH1 (Temperatur)	Int	16 Bit	rw	-20...80	Schaltpunkt [°C]		
303 (0x12F)	RP2/FL2 (Temperatur)	Int	16 Bit	rw	-20...80	Rückschaltpunkt [°C]		
308 (0x134)	Pol2	UInt	8 Bit	rw	0 = Schließer 1 = Öffner			



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SICK device specific							
Index dec (hex)	Name	Format (Offset)	Length	Access ¹	Default Value	Value / Range	Remark [Unit]
309 (0x135)	SimQ2	UInt	8 Bit	rw	0 = Off 1 = On 255 = Norm	Simulate Q2	
320 (0x140)	Mode3	UInt	8 Bit	rw	0 = Output 1 = Input		
322 (0x142)	Typ3	UInt	8 Bit	rw	2 = NPN 3 = PNP 4 = DRV	Output Driver	
325 (0x145)	Actio3	UInt	8 Bit	rw	1 = min-Level 2 = max-Level 3 = setError	Input Action	
327 (0x147)	Proc3	UInt	8 Bit	rw	0 = Level 3 = Temperature 4 = Status	process parameter	
328 (0x148)	Out3	UInt	8 Bit	rw	0 = Hysteresis 1 = Window	Mode	
329 (0x149)	Stat3	UInt	8 Bit	rw	0 = Failure		
330 (0x14A)	SP3/FH3 (Level)	UInt	16 Bit	rw	0...4000	Switching Point [mm]	
331 (0x14B)	RP3/FL3 (Level)	UInt	16 Bit	rw	0...4000	Reset Point [mm]	
332 (0x14C)	SP3/FH3 (Temperature)	Int	16 Bit	rw	-20...80	Switching Point [°C]	
333 (0x14D)	RP3/FL3 (Temperature)	Int	16 Bit	rw	-20...80	Reset Point [°C]	
338 (0x152)	Pol3	UInt	8 Bit	rw	0 = normally open 1 = normally closed		
339 (0x153)	SimQ3	UInt	8 Bit	rw	0 = Off 1 = On 255 = Norm	Simulate Q3	
350 (0x15E)	Mode4	UInt	8 Bit	rw	0 = Output 1 = Input		
352 (0x160)	Typ4	UInt	8 Bit	rw	2 = NPN 3 = PNP 4 = DRV	Output Driver	
355 (0x163)	Actio4	UInt	8 Bit	rw	1 = min-Level 2 = max-Level 3 = setError	Input Action	
357 (0x165)	Proc4	UInt	8 Bit	rw	0 = Level 3 = Temperature 4 = Status	process parameter	
358 (0x166)	Out4	UInt	8 Bit	rw	0 = Hysteresis 1 = Window	Mode	
359 (0x167)	Stat4	UInt	8 Bit	rw	0 = Failure		
360 (0x168)	SP4/FH4 (Level)	UInt	16 Bit	rw	0...4000	Switching Point [mm]	
361 (0x169)	RP4/FL4 (Level)	UInt	16 Bit	rw	0...4000	Reset Point [mm]	
362 (0x16A)	SP4/FH4 (Temperature)	Int	16 Bit	rw	-20...80	Switching Point [°C]	
363 (0x16B)	RP4/FL4 (Temperature)	Int	16 Bit	rw	-20...80	Reset Point [°C]	
368 (0x170)	Pol4	UInt	8 Bit	rw	0 = normally open 1 = normally closed		

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SICK spezifisch							
Index dez (hex)	Name	Format (Offset)	Länge	Zugriff ¹	Standard Wert	Wertebereich	Bemerkung [Einheit]
309 (0x135)	SimQ2	UInt	8 Bit	rw	0 = Off 1 = On 255 = Norm	Simuliere Q2	
320 (0x140)	Mode3	UInt	8 Bit	rw	0 = Ausgang 1 = Eingang		
322 (0x142)	Typ3	UInt	8 Bit	rw	2 = NPN 3 = PNP 4 = DRV	Ausgangsstufe	
325 (0x145)	Actio3	UInt	8 Bit	rw	1 = min-Level 2 = max-Level 3 = setError	Eingangsfunktion	
327 (0x147)	Proc3	UInt	8 Bit	rw	0 = Füllstand 3 = Temperatur 4 = Status	Prozessparameter	
328 (0x148)	Out3	UInt	8 Bit	rw	0 = Hysteresis 1 = Fenster	Modus	
329 (0x149)	Stat3	UInt	8 Bit	rw	0 = Fehler		
330 (0x14A)	SP3/FH3 (Füllstand)	UInt	16 Bit	rw	0...4000	Schaltpunkt [mm]	
331 (0x14B)	RP3/FL3 (Level)	UInt	16 Bit	rw	0...4000	Rückschaltpunkt [mm]	
332 (0x14C)	SP3/FH3 (Temperatur)	Int	16 Bit	rw	-20...80	Schaltpunkt [°C]	
333 (0x14D)	RP3/FL3 (Temperatur)	Int	16 Bit	rw	-20...80	Rückschaltpunkt [°C]	
338 (0x152)	Pol3	UInt	8 Bit	rw	0 = Schließer 1 = Öffner		
339 (0x153)	SimQ3	UInt	8 Bit	rw	0 = Off 1 = On 255 = Norm	Simuliere Q3	
350 (0x15E)	Mode4	UInt	8 Bit	rw	0 = Ausgang 1 = Eingang		
352 (0x160)	Typ4	UInt	8 Bit	rw	2 = NPN 3 = PNP 4 = DRV	Ausgangsstufe	
355 (0x163)	Actio4	UInt	8 Bit	rw	1 = min-Level 2 = max-Level 3 = setError	Eingangsfunktion	
357 (0x165)	Proc4	UInt	8 Bit	rw	0 = Füllstand 3 = Temperatur 4 = Status	Prozessparameter	
358 (0x166)	Out4	UInt	8 Bit	rw	0 = Hysteresis 1 = Fenster	Modus	
359 (0x167)	Stat4	UInt	8 Bit	rw	0 = Fehler		
360 (0x168)	SP4/FH4 (Level)	UInt	16 Bit	rw	0...4000	Schaltpunkt [mm]	
361 (0x169)	RP4/FL4 (Level)	UInt	16 Bit	rw	0...4000	Rückschaltpunkt [mm]	
362 (0x16A)	SP4/FH4 (Temperatur)	Int	16 Bit	rw	-20...80	Schaltpunkt [°C]	
363 (0x16B)	RP4/FL4 (Temperatur)	Int	16 Bit	rw	-20...80	Rückschaltpunkt [°C]	



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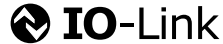
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Please note the validity of the additional operating instructions for automation functions

ENGLISH							
SICK device specific							
Index dec (hex)	Name	Format (Offset)	Length	Access ¹	Default Value	Value / Range	Remark [Unit]
369 (0x171)	SimQ4	UInt	8 Bit	rw	0 = Off 1 = On 255 = Norm	Simulate Q4	
380 (0x17C)	QaProc	UInt	8 Bit	rw	0 = Level 1 = Temperature	process parameter	
381 (0x17D)	QaTyp-Config	UInt	8 Bit	rw	0 = 4_20mA 1 = 0_10V 2 = Auto	Output Type	
382 (0x17E)	QaTyp-State	UInt	8 Bit	ro	0 = 4_20mA 1 = 0_10V 2 = Auto 3 = Auto 4-20mA 4 = Auto 0-10V 5 = Inactive 6 = Initialize	Output Type Status	
383 (0x17F)	QaPol	UInt	8 Bit	rw	0 = Normal 1 = Inverted	Output Polarity	
384 (0x180)	QaHigh (Level)	UInt	16 Bit	rw	0...4000	[mm]	
385 (0x181)	QaLow (Level)	UInt	16 Bit	rw	0...4000	[mm]	
386 (0x182)	QaHigh (Temperature)	Int	16 Bit	rw	-20...80	[°C]	
387 (0x183)	QaLow (Temperature)	Int	16 Bit	rw	-20...80	[°C]	
390 (0x186)	QaFail	UInt	8 Bit	rw	0 = 3.5mA 1 = 21.5mA		
391 (0x187)	SimQaCurrent	UInt	8 Bit	rw	35 = 3.5mA 38 = 3.8mA 40 = 4.0mA 100 = 10.0mA 120 = 12.0mA 180 = 18.0mA 200 = 20.0mA 205 = 20.5mA 215 = 21.5mA 255 = SimOff	Simulate Qa	
392 (0x188)	SimQaVoltage	UInt	8 Bit	rw	0 = 0.0V 20 = 2.0V 40 = 4.0V 60 = 6.0V 80 = 8.0V 100 = 10.0V 105 = 10.5V 255 = SimOff	Simulate Qa	
400 (0x190)	QbProc	UInt	8 Bit	rw	0 = Level 1 = Temperature	process parameter	
401 (0x191)	QbTyp-Config	UInt	8 Bit	rw	0 = 4_20mA 1 = 0_10V 2 = Auto	Output Type	

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]
368 (0x170)	Pol4	UInt	8 Bit	rw	0 = Schließer 1 = Öffner		
369 (0x171)	SimQ4	UInt	8 Bit	rw	0 = Off 1 = On 255 = Norm	Simuliere Q4	
380 (0x17C)	QaProc	UInt	8 Bit	rw	0 = Füllstand 1 = Temperatur	Prozessparameter	
381 (0x17D)	QaTyp-Config	UInt	8 Bit	rw	0 = 4_20mA 1 = 0_10V 2 = Auto	Ausgangskonfiguration	
382 (0x17E)	QaTyp-State	UInt	8 Bit	ro	0 = 4_20mA 1 = 0_10V 2 = Auto 3 = Auto 4-20mA 4 = Auto 0-10V 5 = Inaktiv 6 = Initialisiere	Output Type Status	
383 (0x17F)	QaPol	UInt	8 Bit	rw	0 = Normal 1 = Invertiert	Ausgabepolarität	
384 (0x180)	QaHigh (Füllstand)	UInt	16 Bit	rw	0...4000	[mm]	
385 (0x181)	QaLow (Füllstand)	UInt	16 Bit	rw	0...4000	[mm]	
386 (0x182)	QaHigh (Temperatur)	Int	16 Bit	rw	-20...80	[°C]	
387 (0x183)	QaLow (Temperatur)	Int	16 Bit	rw	-20...80	[°C]	
390 (0x186)	QaFail	UInt	8 Bit	rw	0 = 3.5mA 1 = 21.5mA		
391 (0x187)	SimQaCurrent	UInt	8 Bit	rw	35 = 3.5mA 38 = 3.8mA 40 = 4.0mA 100 = 10.0mA 120 = 12.0mA 180 = 18.0mA 200 = 20.0mA 205 = 20.5mA 215 = 21.5mA 255 = SimOff	Simuliere Qa	
392 (0x188)	SimQaVoltage	UInt	8 Bit	rw	0 = 0.0V 20 = 2.0V 40 = 4.0V 60 = 6.0V 80 = 8.0V 100 = 10.0V 105 = 10.5V 255 = SimOff	Simuliere Qa	
400 (0x190)	QbProc	UInt	8 Bit	rw	0 = Füllstand 1 = Temperatur	Prozessparameter	



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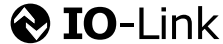
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Please note the validity of the additional operating instructions for automation functions

ENGLISH							
SICK device specific							
Index dec (hex)	Name	Format (Offset)	Length	Access ¹	Default Value	Value / Range	Remark [Unit]
402 (0x192)	QbTyp-State	UInt	8 Bit	ro	0 = 4_20mA 1 = 0_10V 2 = Auto 3 = Auto 4-20mA 4 = Auto 0-10V 5 = Inactive 6 = Initialize	Output Type Status	
403 (0x193)	QbPol	UInt	8 Bit	rw	0 = Normal 1 = Inverted	Output Polarity	
404 (0x194)	QbHigh (Level)	UInt	16 Bit	rw	0...4000	[mm]	
405 (0x195)	QbLow (Level)	UInt	16 Bit	rw	0...4000	[mm]	
406 (0x196)	QbHigh (Temperature)	Int	16 Bit	rw	-20...80	[°C]	
407 (0x197)	QbLow (Temperature)	Int	16 Bit	rw	-20...80	[°C]	
410 (0x19A)	QbFail	UInt	8 Bit	rw	0 = 3.5mA 1 = 21.5mA		
411 (0x19B)	SimQbCurrent	UInt	8 Bit	rw	35 = 3.5mA 38 = 3.8mA 40 = 4.0mA 100 = 10.0mA 120 = 12.0mA 180 = 18.0mA 200 = 20.0mA 205 = 20.5mA 215 = 21.5mA 255 = SimOff	Simulate Qb	
412 (0x19C)	SimQbVoltage	UInt	8 Bit	rw	0 = 0.0V 20 = 2.0V 40 = 4.0V 60 = 6.0V 80 = 8.0V 100 = 10.0V 105 = 10.5V 10.5V 255 = SimOff	Simulate Qb	
420 (0x1A4)	Unit Level	UInt	8 Bit	rw	0 = mm 1 = inch	only for Display	
421 (0x1A5)	Unit Temperature	UInt	8 Bit	rw	0 = Celsius 1 = Fahrenheit	only for Display	
424 (0x1A8)	Disp A	UInt	8 Bit	rw	0 = Level 1 = Level (%) 2 = Temperature 3 = Qa 4 = Qb 5 = Qx		
425 (0x1A9)	Disp B	UInt	8 Bit	rw	0 = Level 1 = Level (%) 2 = Temperature 3 = Qa 4 = Qb 5 = Qx		
432 (0x1B0)	Role	UInt	8 Bit	rw	0 = User 1 = Expert	Display Role	

¹ ro = 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]
401 (0x191)	QbTyp-Config	UInt	8 Bit	rw	0 = 4_20mA 1 = 0_10V 2 = Auto	Ausgangskonfiguration	
402 (0x192)	QbTyp-State	UInt	8 Bit	ro	0 = 4_20mA 1 = 0_10V 2 = Auto 3 = Auto 4-20mA 4 = Auto 0-10V 5 = Inaktiv 6 = Initialisiere	Ausgabebetyp Status	
403 (0x193)	QbPol	UInt	8 Bit	rw	0 = Normal 1 = Invertiert	Ausgabepolarität	
404 (0x194)	QbHigh (Füllstand)	UInt	16 Bit	rw	0...4000	[mm]	
405 (0x195)	QbLow (Füllstand)	UInt	16 Bit	rw	0...4000	[mm]	
406 (0x196)	QbHigh (Temperatur)	Int	16 Bit	rw	-20...80	[°C]	
407 (0x197)	QbLow (Temperatur)	Int	16 Bit	rw	-20...80	[°C]	
410 (0x19A)	QbFail	UInt	8 Bit	rw	0 = 3.5mA 1 = 21.5mA		
411 (0x19B)	SimQbCurrent	UInt	8 Bit	rw	35 = 3.5mA 38 = 3.8mA 40 = 4.0mA 100 = 10.0mA 120 = 12.0mA 180 = 18.0mA 200 = 20.0mA 205 = 20.5mA 215 = 21.5mA 255 = SimOff	Simuliere Qb	
412 (0x19C)	SimQbVoltage	UInt	8 Bit	rw	0 = 0.0V 20 = 2.0V 40 = 4.0V 60 = 6.0V 80 = 8.0V 100 = 10.0V 105 = 10.5V 10.5V 255 = SimOff	Simuliere Qb	
420 (0x1A4)	Einheit Füllstand	UInt	8 Bit	rw	0 = mm 1 = inch	nur für Display	
421 (0x1A5)	Einheit Temperatur	UInt	8 Bit	rw	0 = Celsius 1 = Fahrenheit	nur für Display	
424 (0x1A8)	Disp A	UInt	8 Bit	rw	0 = Füllstand 1 = Füllstand (%) 2 = Temperatur 3 = Qa 4 = Qb 5 = Qx		
425 (0x1A9)	Disp B	UInt	8 Bit	rw	0 = Füllstand 1 = Füllstand (%) 2 = Temperatur 3 = Qa 4 = Qb 5 = Qx		

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SICK device specific							
Index dec (hex)	Name	Format (Offset)	Length	Access ¹	Default Value	Value / Range	Remark [Unit]
433 (0x1B1)	Lock	Bool	1 Bit	rw			Display lock - Password protected
440 (0x1B8)	TrsHld	UInt	16 Bit	rw	20...500	[%]	
441 (0x1B9)	Filter (Level)	UInt	8 Bit	rw	0 = Off 5 = 500ms 10 = 1 sec 20 = 2 sec 50 = 5 sec 100 = 10 sec		
442 (0x1BA)	Offset	UInt	16 Bit	rw	0...3000	[mm]	
443 (0x1BB)	SimLevel	UInt	8 Bit	rw	0 = 0% 10 = 10% 20 = 20% 30 = 30% 40 = 40% 50 = 50% 60 = 60% 70 = 70% 80 = 80% 90 = 90% 100 = 100% 255 = SimOff		
444 (0x1BC)	SimTemp	UInt	8 Bit	rw	0 = 0 °C 10 = 10 °C 20 = 20 °C 30 = 30 °C 40 = 40 °C 50 = 50 °C 60 = 60 °C 70 = 70 °C 80 = 80 °C 110 = -10 °C 120 = -20 °C 255 = SimOff		
445 (0x1BD)	Adapt	UInt	8 Bit	rw	0 = Off 1 = 1 sec 5 = 5 sec 10 = 10 sec 30 = 30 sec 60 = 60 sec		Medium Adaption
446 (0x1BE)	Teach-Invoke	UInt	8 Bit	wo	0 = idle 1 = AutCal 2 = CalEmp 3 = Reset 4 = reserved 5 = reserved 6 = reserved 7 = reserved		
447 (0x1BF)	Teach-State	UInt	8 Bit	ro	0 = idle 1 = running 2 = successful 3 = failed 4 = unknown command		
450 (0x1C2)	ReservedA	UInt	8 Bit	rw	0 = Reserved0 1 = Reserved1 2 = Reserved2 3 = Reserved3 4 = Reserved4 5 = Reserved5 6 = Reserved6 7 = Reserved7		
451 (0x1C3)	ReservedB	UInt	8 Bit	rw	0 = Reserved0 1 = Reserved1 2 = Reserved2 3 = Reserved3 4 = Reserved4 5 = Reserved5 6 = Reserved6 7 = Reserved7		

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]
432 (0x1B0)	Profil	UInt	8 Bit	rw	0 = User 1 = Expert		Display Profil
433 (0x1B1)	Lock	Bool	1 Bit	rw	true = aktiv false = inaktiv		Displaysperre - passwortgeschützt
440 (0x1B8)	TrsHld	UInt	16 Bit	rw	20...500	[%]	
441 (0x1B9)	Filter (Füllstand)	UInt	8 Bit	rw	0 = Off 5 = 500ms 10 = 1 sec 20 = 2 sec 50 = 5 sec 100 = 10 sec		
442 (0x1BA)	Offset	UInt	16 Bit	rw	0...3000	[mm]	
443 (0x1BB)	SimLevel	UInt	8 Bit	rw	0 = 0% 10 = 10% 20 = 20% 30 = 30% 40 = 40% 50 = 50% 60 = 60% 70 = 70% 80 = 80% 90 = 90% 100 = 100% 255 = SimOff		
444 (0x1BC)	SimTemp	UInt	8 Bit	rw	0 = 0 °C 10 = 10 °C 20 = 20 °C 30 = 30 °C 40 = 40 °C 50 = 50 °C 60 = 50 °C 70 = 70 °C 80 = 80 °C 110 = -10 °C 120 = -20 °C 255 = SimOff		
445 (0x1BD)	Adapt	UInt	8 Bit	rw	0 = Off 1 = 1 sec 5 = 5 sec 10 = 10 sec 30 = 30 sec 60 = 60 sec		Medium Adaption
446 (0x1BE)	Teach ausführen	UInt	8 Bit	wo	0 = idle 1 = AutCal 2 = CalEmp 3 = Zurücksetzen 4 = Reserviert 5 = Reserviert 6 = Reserviert 7 = Reserviert		
447 (0x1BF)	Teach Status	UInt	8 Bit	ro	0 = idle 1 = running 2 = erfolgreich 3 = fehlgeschlagen 4 = unbekannter Befehl		
450 (0x1C2)	ReserviertA	UInt	8 Bit	rw	0 = Reserviert0 1 = Reserviert1 2 = Reserviert2 3 = Reserviert3 4 = Reserviert4 5 = Reserviert5 6 = Reserviert6 7 = Reserviert7		
451 (0x1C3)	ReserviertB	UInt	8 Bit	rw	0 = Reserviert0 1 = Reserviert1 2 = Reserviert2 3 = Reserviert3 4 = Reserviert4 5 = Reserviert5 6 = Reserviert6 7 = Reserviert7		



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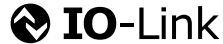
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ENGLISH									
SICK device specific									
Index dec (hex)	Name	Format (Offset)	Length	Access ¹	Default Value	Value / Range	Remark [Unit]		
452 (0x1C4)	ReservedC	UInt	8 Bit	rw	0 = Reserved0 1 = Reserved1 2 = Reserved2 3 = Reserved3 4 = Reserved4 5 = Reserved5 6 = Reserved6 7 = Reserved7				
453 (0x1C5)	ReservedD	Int	16 Bit	rw					
454 (0x1C6)	ReservedE	Int	16 Bit	rw					
455 (0x1C7)	ReservedF	Int	16 Bit	rw					
480 (0x1E0)	SigQu (Master)	UInt	8 Bit	ro	[%]				
481 (0x1E1)	SigQu1	UInt	8 Bit	ro	[%]				
482 (0x1E2)	SigQu2	UInt	8 Bit	ro	[%]				
483 (0x1E3)	SigQu3	UInt	8 Bit	ro	[%]				
484 (0x1E4)	SigQu4	UInt	8 Bit	ro	[%]				
485 (0x1E5)	PowerUpCounter	UInt	32 Bit	ro					
486 (0x1E6)	Supply Voltage	UInt	16 Bit	ro	[V]				
487 (0x1E7)	Sensor Temperature Housing	Int	16 Bit	ro	[°C]				
488 (0x1E8)	Max Value (Level)	UInt	16 Bit	ro	0..4000	[mm]			
489 (0x1E9)	Min Value (Level)	UInt	16 Bit	ro	0..4000	[mm]			
490 (0x1EA)	Max Value (Temperature)	Int	16 Bit	ro	-20..80	[°C]			
491 (0x1EB)	Min Value (Temperature)	Int	16 Bit	ro	-20..80	[°C]			
494 (0x1EE)	Reset Min/Max	UInt	8 Bit	wo	0 = Reset all 1 = Reset Min/Max Values (Level) 2 = Reset Min/Max Values (Temperature) 3 = reserved				
500 (0x1F4)	Error Delay	UInt	8 Bit	rw	0 = Off 1 = 1 sec 2 = 2 sec 5 = 5 sec 10 = 10 sec 30 = 30 sec				
502 (0x1F6)	Active Notifications	Record	4 Byte	ro					
1 (0x01)	SystemState	Bit (0)	2 Bit	ro	0 = Failure 1 = Warning 2 = Ok				
2 (0x02)	reserved	Bit (2)	1 Bit	ro	true = active false = -				
3 (0x03)	Shortcut Q2	Bit (3)	1 Bit	ro	true = active false = -				
4 (0x04)	Shortcut Q3	Bit (4)	1 Bit	ro	true = active false = -				
5 (0x05)	Shortcut Q4	Bit (5)	1 Bit	ro	true = active false = -				
6 (0x06)	Overload Q12	Bit (6)	1 Bit	ro	true = active false = -				
7 (0x07)	Overload Q34	Bit (7)	1 Bit	ro	true = active false = -				
8 (0x08)	Shortcut Qa	Bit (8)	1 Bit	ro	true = active false = -				
9 (0x09)	Overload Qa	Bit (9)	1 Bit	ro	true = active false = -				

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]		
452 (0x1C4)	ReserviertC	UInt	8 Bit	rw	0 = Reserviert0 1 = Reserviert1 2 = Reserviert2 3 = Reserviert3 4 = Reserviert4 5 = Reserviert5 6 = Reserviert6 7 = Reserviert7				
453 (0x1C5)	ReserviertD	Int	16 Bit	rw					
454 (0x1C6)	ReserviertE	Int	16 Bit	rw					
455 (0x1C7)	ReserviertF	Int	16 Bit	rw					
480 (0x1E0)	SigQu (Master)	UInt	8 Bit	ro	[%]				
481 (0x1E1)	SigQu1	UInt	8 Bit	ro	[%]				
482 (0x1E2)	SigQu2	UInt	8 Bit	ro	[%]				
483 (0x1E3)	SigQu3	UInt	8 Bit	ro	[%]				
484 (0x1E4)	SigQu4	UInt	8 Bit	ro	[%]				
485 (0x1E5)	PowerUpCounter	UInt	32 Bit	ro					
486 (0x1E6)	Versorgungsspannung	UInt	16 Bit	ro	[V]				
487 (0x1E7)	Sensortemperatur Gehäuse	Int	16 Bit	ro	[°C]				
488 (0x1E8)	Max Wert (Füllstand)	UInt	16 Bit	ro	0..4000	[mm]			
489 (0x1E9)	Min Wert (Füllstand)	UInt	16 Bit	ro	0..4000	[mm]			
490 (0x1EA)	Max Wert (Temperatur)	Int	16 Bit	ro	-20..80	[°C]			
491 (0x1EB)	Min Wert (Temperatur)	Int	16 Bit	ro	-20..80	[°C]			
494 (0x1EE)	Zurücksetzen Min/Max	UInt	8 Bit	wo	0 = Alle zurücksetzen 1 = Zurücksetzen Min/Max (Füllstand) 2 = Zurücksetzen Min/Max (Temperatur) 3 = Reserviert				
500 (0x1F4)	Fehlervverzögerung	UInt	8 Bit	rw	0 = Off 1 = 1 sec 2 = 2 sec 5 = 5 sec 10 = 10 sec 30 = 30 sec				
502 (0x1F6)	aktive Benachrichtigungen	Record	4 Byte	ro					
1 (0x01)	Systemstatus	Bit (0)	2 Bit	ro	0 = Fehler 1 = Warnung 2 = OK				
2 (0x02)	SC-Q3	Bit (2)	1 Bit	ro	true = aktiv false = -				
3 (0x03)	Kurzschluss Q2	Bit (3)	1 Bit	ro	true = aktiv false = -				
4 (0x04)	Kurzschluss Q3	Bit (4)	1 Bit	ro	true = aktiv false = -				
5 (0x05)	Kurzschluss Q4	Bit (5)	1 Bit	ro	true = aktiv false = -				
6 (0x06)	Überlast Q12	Bit (6)	1 Bit	ro	true = aktiv false = -				
7 (0x07)	Überlast Q34	Bit (7)	1 Bit	ro	true = aktiv false = -				
8 (0x08)	Kurzschluss Qa	Bit (8)	1 Bit	ro	true = aktiv false = -				
9 (0x09)	Überlast Qa	Bit (9)	1 Bit	ro	true = aktiv false = -				



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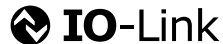
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Please note the validity of the additional operating instructions for automation functions

ENGLISH							
SICK device specific							
Index dec (hex)	Name	Format (Offset)	Length	Access ¹	Default Value	Value / Range	Remark [Unit]
9 (0x09)	Overload Qa	Bit (9)	1 Bit	ro	true = active false = -		
10 (0x0A)	Shortcut Qb	Bit (10)	1 Bit	ro	true = active false = -		
11 (0x0B)	Overload Qb	Bit (11)	1 Bit	ro	true = active false = -		
12 (0x0C)	reserved	Bit (12)	1 Bit	ro	true = active false = -		
13 (0x0D)	reserved	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)	Invalid Memory	Bit (16)	1 Bit	ro	true = active false = -		
17 (0x11)	Signal Warning	Bit (17)	1 Bit	ro	true = active false = -		
18 (0x12)	Threshold Warning	Bit (18)	1 Bit	ro	true = active false = -		
19 (0x13)	Process Temperature Failure	Bit (19)	1 Bit	ro	true = active false = -		
20 (0x14)	reserved	Bit (20)	1 Bit	ro	true = active false = -		
21 (0x15)	reserved	Bit (21)	1 Bit	ro	true = active false = -		
22 (0x16)	reserved	Bit (22)	1 Bit	ro	true = active false = -		
23 (0x17)	reserved	Bit (23)	1 Bit	ro	true = active false = -		
24 (0x18)	Process Temperature too hot	Bit (24)	1 Bit	ro	true = active false = -		
25 (0x19)	Process Temperature too cold	Bit (25)	1 Bit	ro	true = active false = -		
26 (0x1A)	Housing Temperature too hot	Bit (26)	1 Bit	ro	true = active false = -		
27 (0x1B)	Housing Temperature too cold	Bit (27)	1 Bit	ro	true = active false = -		
28 (0x1C)	reserved	Bit (28)	1 Bit	ro	true = active false = -		
29 (0x1D)	Simulation Active	Bit (29)	1 Bit	ro	true = active false = -		
30 (0x1E)	Warning Active	Bit (30)	1 Bit	ro	true = active false = -		
31 (0x1F)	Failure Active	Bit (31)	1 Bit	ro	true = active false = -		
510 (0x1FE)	Special Action Invoke	UInt	16 Bit	wo			
511 (0x1FF)	Special Action State	UInt	8 Bit	ro	0 = idle 1 = running 2 = successful 3 = failed 4 = Invalid Action		
512 (0x200)	Special Action Scratchpad	Array	128 Byte	rw	Unsigned Integer8 [128]		

Standard command					
Index dec (hex)	Name	Access ¹	Value	Name	Remark [Unit]
2 (0x02)	Standard Command	wo	130	Restore Factory Settings	

Events			
Code dec (hex)	Name	Type	Remark [Unit]
6144	DummyEvent	Notification	DummyEvent

¹ ro = 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]	
9 (0x09)	Überlast Qa	Bit (9)	1 Bit	ro	true = aktiv false = -			
10 (0x0A)	Kurzschluss Qb	Bit (10)	1 Bit	ro	true = aktiv false = -			
11 (0x0B)	Überlast Qb	Bit (11)	1 Bit	ro	true = aktiv false = -			
12 (0x0C)	SC-Q3	Bit (12)	1 Bit	ro	true = aktiv false = -			
13 (0x0D)	SC-Q3	Bit (13)	1 Bit	ro	true = aktiv false = -			
14 (0x0E)	SC-Q3	Bit (14)	1 Bit	ro	true = aktiv false = -			
15 (0x0F)	SC-Q3	Bit (15)	1 Bit	ro	true = aktiv false = -			
16 (0x10)	SC-Q3	Bit (16)	1 Bit	ro	true = aktiv false = -			
17 (0x11)	SC-Q3	Bit (17)	1 Bit	ro	true = aktiv false = -			
18 (0x12)	SC-Q3	Bit (18)	1 Bit	ro	true = aktiv false = -			
19 (0x13)	SC-Q3	Bit (19)	1 Bit	ro	true = aktiv false = -			
20 (0x14)	SC-Q3	Bit (20)	1 Bit	ro	true = aktiv false = -			
21 (0x15)	SC-Q3	Bit (21)	1 Bit	ro	true = aktiv false = -			
22 (0x16)	SC-Q3	Bit (22)	1 Bit	ro	true = aktiv false = -			
23 (0x17)	SC-Q3	Bit (23)	1 Bit	ro	true = aktiv false = -			
24 (0x18)	SC-Q3	Bit (24)	1 Bit	ro	true = aktiv false = -			
25 (0x19)	SC-Q3	Bit (25)	1 Bit	ro	true = aktiv false = -			
26 (0x1A)	SC-Q3	Bit (26)	1 Bit	ro	true = aktiv false = -			
27 (0x1B)	SC-Q3	Bit (27)	1 Bit	ro	true = aktiv false = -			
28 (0x1C)	SC-Q3	Bit (28)	1 Bit	ro	true = aktiv false = -			
29 (0x1D)	SC-Q3	Bit (29)	1 Bit	ro	true = aktiv false = -			
30 (0x1E)	SC-Q3	Bit (30)	1 Bit	ro	true = aktiv false = -			
31 (0x1F)	SC-Q3	Bit (31)	1 Bit	ro	true = aktiv false = -			
510 (0x1FE)	Sonderfunktion Ausführen	UInt	16 Bit	wo				
511 (0x1FF)	Sonderfunktion Zustand	UInt	8 Bit	ro	0 = idle 1 = wird ausgeführt 2 = erfolgreich 3 = fehlgeschlagen 4 = ungültige Aktion			
512 (0x200)	Sonderfunktion Speicher	Array	128 Byte	rw	Unsigned Integer8 [128]			

Standardkommando					
Index dez (hex)	Name	Zugriff ¹	Wert	Name	Bemerkung [Einheit]
2 (0x02)	Standardkommando	wo	130	Auslieferungszustand wiederherstellen	

Events			
Code dez (hex)	Name	Typ	Bemerkung [Einheit]
6144	DummyEvent	Notification	DummyEvent

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

ENGLISH			
Events			
Code dec (hex)	Name	Type	Remark [Unit]
(0x1800)			
Error			
Code dec (hex)	Additional Code	Name	Remark [Unit]
128 (0x80)	17 (0x11)	Index not available	Access occurs to a not existing index
128 (0x80)	18 (0x12)	Subindex not available	Access occurs to a not existing subindex
128 (0x80)	32 (0x20)	Service temporarily not available	Parameter is not accessible due to the current state of the device application
128 (0x80)	34 (0x22)	Service temporarily not available - device control	Parameter is not accessible due to a remote triggered state of the device application
128 (0x80)	35 (0x23)	Access denied	Write access on a read-only parameter
128 (0x80)	48 (0x30)	Parameter value out of range	Written parameter value is outside its permitted value range
128 (0x80)	51 (0x33)	Parameter length overrun	Written parameter length is above its predefined length
128 (0x80)	52 (0x34)	Parameter length underrun	Written parameter length is below its predefined length
128 (0x80)	53 (0x35)	Function not available	Written command is not supported by the device application
128 (0x80)	54 (0x36)	Function temporarily unavailable	Written command is not available due to the current state of the device application
128 (0x80)	65 (0x41)	Inconsistent parameter set	Parameter inconsistencies were found at the end of block parameter transfer, device plausibility check failed

DEUTSCH			
Events			
Code dez (hex)	Name	Typ	Bemerkung [Einheit]
(0x1800)			
Fehlercodes			
Code dez (hex)	Additional Code	Name	Bemerkung [Einheit]
128 (0x80)	17 (0x11)	Index nicht vorhanden	Zugriff auf einen nicht existierenden Index
128 (0x80)	18 (0x12)	Subindex nicht vorhanden	Zugriff auf einen nicht existierenden Subindex
128 (0x80)	32 (0x20)	Service zur Zeit nicht verfügbar	Auf den Parameter kann gerade nicht zugegriffen werden. Das Gerät erlaubt dies im aktuellen Zustand nicht
128 (0x80)	34 (0x22)	Service zur Zeit nicht verfügbar - Geräte Betriebsmodus	Auf den Parameter kann gerade nicht zugegriffen werden, da sich das Gerät zur Zeit in einem Remote Betriebsmodus befindet
128 (0x80)	35 (0x23)	Zugriff verweigert	Schreibzugriff auf einen schreibgeschützten Parameter
128 (0x80)	48 (0x30)	Parameterwert außerhalb des gültigen Bereichs	Geschriebener Parameterwert liegt außerhalb des zulässigen Wertebereichs
128 (0x80)	51 (0x33)	Parameterlänge zu groß	Geschriebene Parameterlänge ist größer als erlaubt
128 (0x80)	52 (0x34)	Parameterlänge zu klein	Geschriebene Parameterlänge ist kleiner als erlaubt
128 (0x80)	53 (0x35)	Funktion nicht verfügbar	Geschriebenes Kommando wird vom Gerät nicht unterstützt
128 (0x80)	54 (0x36)	Funktion zur Zeit nicht verfügbar	Geschriebenes Kommando wird vom Gerät im aktuellen Zustand nicht unterstützt
128 (0x80)	65 (0x41)	Inkonsistenter Parametersatz	Am Ende des Blockparametertransfers wurden Inkonsistenzen erkannt. Der Geräteplausibilitätscheck schlug fehl