

MLG-2-Pro

ENGLISH							
SICK device specific							
Index dec (hex)	Sub Index	Name	Format	Length (Offset)	access	Default Value	Value / Range
67 (0x43)		Process Data User Definition	Record	16 Byte	rw		
	1	user defined Output Function 1		120 Bit			0 = no function 1 = RLC 1 - 1st value of the Run-Length-Code
	2	user defined Output Function 2		112 Bit			2 = RLC 2 - 2nd value of the Run-Length-Code 3 = RLC 3 - 3rd value of the Run-Length-Code
	3	user defined Output Function 3		104 Bit			4 = RLC 4 - 4th value of the Run-Length-Code 5 = RLC 5 - 5th value of the Run-Length-Code
	4	user defined Output Function 4		96 Bit			6 = RLC 6 - 6th value of the Run-Length-Code 7 = RLC 7 - 7th value of the Run-Length-Code
	5	user defined Output Function 5		88 Bit			8 = RLC 8 - 8th value of the Run-Length-Code 9 = RLC 9 - 9th value of the Run-Length-Code
	6	user defined Output Function 6		80 Bit			10 = RLC 10 - 10th value of the Run-Length-Code 11 = RLC 11 - 11th value of the Run-Length-Code
	7	user defined Output Function 7		72 Bit			12 = RLC 12 - 12th value of the Run-Length-Code 13 = RLC 13 - 13th value of the Run-Length-Code
	8	user defined Output Function 8		64 Bit			14 = RLC 14 - 14th value of the Run-Length-Code 15 = RLC 15 - 15th value of the Run-Length-Code
	9	user defined Output Function 9	Offset	56 Bit			16 = RLC 16 - 16th value of the Run-Length-Code 17 = System Status (High-Byte) and Q-Status (Low-Byte)
	10	user defined Output Function 10		48 Bit			18 = NBB Number Beams Blocked 19 = NBM Number Beams Made
	11	user defined Output Function 11		40 Bit			20 = FBB First Beam Blocked 21 = FBM First Beam Made
	12	user defined Output Function 12		32 Bit			22 = LBB Last Beam Blocked 23 = LBM Last Beam Made
	13	user defined Output Function 13		24 Bit			24 = NCBB Number of Consecutive Beams Blocked 25 = NCBM Number of Consecutive Beams Made
	14	user defined Output Function 14		16 Bit			26 = CBB Central Beam Blocked 27 = CBM Central Beam Made
	15	user defined Output Function 15		8 Bit			28 = ODI Outside Dimension 29 = IDI Inside Dimension
	16	user defined Output Function 16		0 Bit			30 = Virtual Outputs (VQs) 31 = Teach Quality 32 = Process-Quality 33 = Flow Counter
68 (0x44)		Transparent Mode	Uint	8 Bit	rw		0 = Attenuation 30% 1 = Attenuation 15% 2 = Attenuation 10%
69 (0x45)		Alignment Help Enable	Uint	8 Bit	rw	1	0 = Alignment Help Inactive 1 = Alignment Help Active
70 (0x46)		Blanking Teach Enable	Uint	8 Bit	rw	0	0 = Blanking Teach Inactive 1 = Blanking Teach Active

DEUTSCH							
SICK spezifisch							
Index dez (hex)	Sub Index	Name	Format	Länge (Offset)	Zugriff	Standard-Wert	Wertebereich
67 (0x43)		frei definierte Prozessdaten	Record	16 Byte	rw		
	1	frei definierte Ausgangsfunktion 1		120 Bit			0 = keine Funktion 1 = RLC 1 - 1ster Wechsel im Run-Length-Code
	2	frei definierte Ausgangsfunktion 2		112 Bit			2 = RLC 2 - 2ster Wechsel im Run-Length-Code 3 = RLC 3 - 3ster Wechsel im Run-Length-Code
	3	frei definierte Ausgangsfunktion 3		104 Bit			4 = RLC 4 - 4ster Wechsel im Run-Length-Code 5 = RLC 5 - 5ster Wechsel im Run-Length-Code
	4	frei definierte Ausgangsfunktion 4		96 Bit			6 = RLC 6 - 6ster Wechsel im Run-Length-Code 7 = RLC 7 - 7ster Wechsel im Run-Length-Code
	5	frei definierte Ausgangsfunktion 5		88 Bit			8 = RLC 8 - 8ster Wechsel im Run-Length-Code 9 = RLC 9 - 9ster Wechsel im Run-Length-Code
	6	frei definierte Ausgangsfunktion 6		80 Bit			10 = RLC 10 - 10ster Wechsel im Run-Length-Code 11 = RLC 11 - 11ster Wechsel im Run-Length-Code
	7	frei definierte Ausgangsfunktion 7		72 Bit			12 = RLC 12 - 12ster Wechsel im Run-Length-Code 13 = RLC 13 - 13ster Wechsel im Run-Length-Code
	8	frei definierte Ausgangsfunktion 8		64 Bit			14 = RLC 14 - 14ster Wechsel im Run-Length-Code 15 = RLC 15 - 15ster Wechsel im Run-Length-Code
	9	frei definierte Ausgangsfunktion 9	Offset	56 Bit			16 = RLC 16 - 16ster Wechsel im Run-Length-Code 17 = System-Status und Q-Status
	10	frei definierte Ausgangsfunktion 10		48 Bit			18 = NBB Anzahl unterbrochener Strahlen 19 = NBM Anzahl freier Strahlen
	11	frei definierte Ausgangsfunktion 11		40 Bit			20 = FBB erster unterbrochener Strahl 21 = FBM erster freier Strahl
	12	frei definierte Ausgangsfunktion 12		32 Bit			22 = LBB letzter unterbrochener Strahl 23 = LBM letzter freier Strahl
	13	frei definierte Ausgangsfunktion 13		24 Bit			24 = NCBB Anzahl zusammenhängend unterbrochener Strahlen 25 = NCBM Anzahl zusammenhängend freier Strahlen
	14	frei definierte Ausgangsfunktion 14		16 Bit			26 = CBB zentraler unterbrochener Strahl 27 = CBM zentraler freier Strahl
	15	frei definierte Ausgangsfunktion 15		8 Bit			28 = ODI Außendurchmesser 29 = IDI Innendurchmesser
	16	frei definierte Ausgangsfunktion 16		0 Bit			30 = virtuelle Ausgänge (VQs) 31 = Teach-In-Qualität 32 = Prozess-Qualität 33 = Telegramm-Zähler
68 (0x44)		Transparent-Modus	Uint	8 Bit	rw		0 = Signalabschwächung 30% 1 = Signalabschwächung 15% 2 = Signalabschwächung 10%
69 (0x45)		Ausrichthilfe	Uint	8 Bit	rw	1	0 = Ausrichthilfe inaktiv 1 = Ausrichthilfe aktiv
70 (0x46)		Ausblend-teach	Uint	8 Bit	rw	0	0 = Ausblend-Teach inaktiv 1 = Ausblend-Teach aktiv

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SICK device specific														
Index dec (hex)	Sub Index	Name	Format	Length (Offset)	Access	Default Value	Value / Range							
72 (0x48)		Beam Blanking Mask	Record	64 Byte	rw									
	1	Beam 1...32		480 Bit		FFFFFFFF	0 = Beam Inactive							
	2	Beam 33...64		448 Bit		FFFFFFFF	1 = Beam Active							
	3	Beam 65...96		416 Bit		FFFFFFFF								
	4	Beam 97...128		384 Bit		FFFFFFFF								
	5	Beam 129...160		352 Bit		FFFFFFFF								
	6	Beam 161...192		320 Bit		FFFFFFFF								
	7	Beam 193...224		288 Bit		FFFFFFFF								
	8	Beam 225...256		256 Bit		FFFFFFFF								
	9	Beam 257...288		224 Bit		FFFFFFFF								
	10	Beam 289...320		192 Bit		FFFFFFFF								
	11	Beam 321...352		160 Bit		FFFFFFFF								
	12	Beam 353...384		128 Bit		FFFFFFFF								
	13	Beam 385...416		96 Bit		FFFFFFFF								
	14	Beam 417...448		64 Bit		FFFFFFFF								
	15	Beam 449...480		32 Bit		FFFFFFFF								
	16	Beam 481...512		0 Bit		FFFFFFFF								
74 (0x4A)		Beam Numeration	UInt	8 Bit	rw	0	0 = Beam No. 1 is at connector side 1 = Beam No. 1 is at head side							
75 (0x4B)		Standby	UInt	8 Bit	rw	0	0 = Standby Inaktive 1 = Standby Active							
81 (0x51)		Key Lock	UInt	8 Bit	rw	0	0 = Unlock 1 = Lock							
83 (0x53)		Device Properties	Record	10 Byte	ro									
	1	Number of Beams		64 Bit										
	2	Beam Separation		48 Bit										
	3	Reproducibility		32 Bit										
	4	Minimum Presence Time		16 Bit										
	5	Response Time		0 Bit										
98 (0x62)		Teach Result	UInt	8 Bit	ro		7	6	5	4	3	2	1	0
						0	AutoTeach not possible	Teach-In failure beam blanking	HighSpeedScan not possible	Teach-In failure Cross Beam Mode	warning beam signal overdrive	Teach-In failure low beam signal	Teach-In failure Parallel Beam Mode	Teach-In failure general
						Valuation	0 = false		1 = true					
100 (0x64)		System Status	UInt	8 Bit	ro		7	6	5	4	3	2	1	0
						0	Sync Error	Teach Fail	Hardw are Error	Contamination Alarm	Teach Active	Over Temperature	ProcessData Invalid	Q-Short Circuit
						Valuation	0 = false		1 = true					
101 (0x65)		Alignment Help	Record	3 Byte	ro									
	1	Signal Strength of the first Beam in %		16 Bit										
	2	Signal Strength of the last Beam in %		8 Bit										
	3	Signal Strength of the Weakest Beam in %		0 Bit										
120 (0x78)		Process Data Select	UInt	8 Bit	rw	0	0 = System Status, Q-Status and Run-Length-Code 1 = System Status, Q-Status and Beam Status 2 = user defined process data							
153 (0x99)		Temperature	Int	8 Bit	ro		-127...+127 °C							

SICK spezifisch														
Index dez (hex)	Sub Index	Name	Format	Länge (Offset)	Zugriff	Standard-Wert	Wertebereich							
72 (0x48)		Strahl-Ausblend-Maske	Record	64 Byte	rw									
	1	Strahl 1...32		480 Bit		FFFFFFFF	0 = Strahl inaktiv							
	2	Strahl 33...64		448 Bit		FFFFFFFF	1 = Strahl aktiv							
	3	Strahl 65...96		416 Bit		FFFFFFFF								
	4	Strahl 97...128		384 Bit		FFFFFFFF								
	5	Strahl 129...160		352 Bit		FFFFFFFF								
	6	Strahl 161...192		320 Bit		FFFFFFFF								
	7	Strahl 193...224		288 Bit		FFFFFFFF								
	8	Strahl 225...256		256 Bit		FFFFFFFF								
	9	Strahl 257...288		224 Bit		FFFFFFFF								
	10	Strahl 289...320		192 Bit		FFFFFFFF								
	11	Strahl 321...352		160 Bit		FFFFFFFF								
	12	Strahl 353...384		128 Bit		FFFFFFFF								
	13	Strahl 385...416		96 Bit		FFFFFFFF								
	14	Strahl 417...448		64 Bit		FFFFFFFF								
	15	Strahl 449...480		32 Bit		FFFFFFFF								
	16	Strahl 481...512		0 Bit		FFFFFFFF								
74 (0x4A)		Strahl-Numerierung	UInt	8 Bit	rw	0	0 = Strahl-Nr. 1 beginnt auf Steckerseite 1 = Strahl-Nr. 1 beginnt auf Kopfseite							
75 (0x4B)		Standby	UInt	8 Bit	rw	0	0 = Standby inaktiv 1 = Standby aktiv							
81 (0x51)		Tastensperre	UInt	8 Bit	rw	0	0 = frei 1 = gesperrt							
83 (0x53)		Geräte-Eigenschaften	Record	10 Byte	ro									
	1	Anzahl Strahlen		64 Bit										
	2	Strahlabstand		48 Bit										
	3	Wiederholgenauigkeit		32 Bit										
	4	Mindestverweildauer		16 Bit										
	5	Ansprechzeit		0 Bit										
98 (0x62)		Teach-Ergebnis	UInt	8 Bit	ro		7	6	5	4	3	2	1	0
						0	AutoTeach nicht möglich	Teach-In Fehler Ausblendung	HighSpeedScan nicht möglich	Teach-In Fehler Kreuzstrahl-Modus	Warnung Strahl-Signal übersteuert	Teach-In Fehler schwaches Signal	Teach-In Fehler Parallelstrahl-Modus	Teach-In Fehler allgemein
						Wert	0 = falsch		1 = wahr					
100 (0x64)		Systemstatus	UInt	8 Bit	ro		7	6	5	4	3	2	1	0
						0	Sync Fehler	Teach-Fehler	Hardw are Fehler	Verschmutzungs-meldung V.M.	Teach Active	Über-Temperatur	Prozessdaten ungültig	Q-Kurzschluss
						Wert	0 = falsch		1 = wahr					
101 (0x65)		Ausrichthilfe	Record	3 Byte	ro									
	1	Signalstärke des ersten Strahls in %		16 Bit										
	2	Signalstärke des letzten Strahls in %		8 Bit										
	3	Signalstärke des schwächsten Strahls in %		0 Bit										
120 (0x78)		Prozessdaten-Auswahl	UInt	8 Bit	rw	0	0 = Systemstatus, Q-Status und Run-Length-Code 1 = Systemstatus, Q-Status und Strahl-Status 2 = frei definierte Prozessdaten							
153 (0x99)		Temperatur	Int	8 Bit	ro		-127...+127 °C							

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Index dec (hex)	Sub Index	Name	Format	Length (Offset)	access	Default Value	Value / Range	Index dec (hex)	Sub Index	Name	Format	Length (Offset)	access	Default Value	Value / Range
183 (0xB7)		Output 1 (Q1) Configuration	Record	4 Byte	rw			183 (0xB7)		Ausgang 1 (Q1) Konfiguration	Record	4 Byte	rw		
	1	Operand 1	Offset	24 Bit			0 = NBB - Number Beams Blocked 1 = NBM - Number Beams Made 2 = FBB - First Beam Blocked 3 = FBM - First Beam Made 4 = LBB - Last Beam Blocked 5 = LBM - Last Beam Made 6 = NCBB - Number of Consecutive Beams Blocked 7 = NCBM - Number of Consecutive Beams Made 8 = CBB - Central Beam Blocked 9 = CBM - Central Beam Made 10 = ODI - Outside Dimension 11 = IDI - Inside Dimension 12 = BNB - Beam Number Blocked 13 = BNM - Beam Number Made 14 = ALARM - as configured by SOPAS 15 = Process Quality 16 = Teach Quality 17...32 = RLC-1...16 = 1st to 16th value of the Run-Length-Code		1	Operand 1	Offset	24 Bit			0 = NBB - Anzahl unterbrochener Strahlen 1 = NBM - Anzahl freier Strahlen 2 = FBB - erster unterbrochener Strahl 3 = FBM - erster freier Strahl 4 = LBB - letzter unterbrochener Strahl 5 = LBM - letzter freier Strahl 6 = NCBB - Anzahl zusammenhängend unterbrochener Strahlen 7 = NCBM - Anzahl zusammenhängend freier Strahlen 8 = CBB - zentraler unterbrochener Strahl 9 = CBM - zentraler freier Strahl 10 = ODI - Außen-Durchmesser 11 = IDI - Innen-Durchmesser 12 = BNB - Anzahl unterbrochener Strahlen 13 = BNM - Anzahl freier Strahlen 14 = ALARM - wie über SOPAS konfiguriert 15 = Prozess-Qualität 16 = Teach-Qualität 17...32 = RLC1...16 = 1ster bis 16ter Wechsel im Run-Length-Code
	2	Operator		16 Bit		0 = == (equal) 1 = >= (greater or equal) 2 = <= (less or equal) 3 = != (not equal)			2	Operator		16 Bit		0 = == (gleich) 1 = >= (größer gleich) 2 = <= (kleiner gleich) 3 = != (ungleich)	
	3	Operand 2		0 Bit		0...510			3	Operand 2		0 Bit		0...510	
184 (0xB8)		Output 2 (Q2) Configuration	Record	4 Byte	rw			184 (0xB8)		Ausgang 2 (Q2) Konfiguration	Record	4 Byte	rw		
	1	Operand 1	Offset	24 Bit			0 = NBB - Number Beams Blocked 1 = NBM - Number Beams Made 2 = FBB - First Beam Blocked 3 = FBM - First Beam Made 4 = LBB - Last Beam Blocked 5 = LBM - Last Beam Made 6 = NCBB - Number of Consecutive Beams Blocked 7 = NCBM - Number of Consecutive Beams Made 8 = CBB - Central Beam Blocked 9 = CBM - Central Beam Made 10 = ODI - Outside Dimension 11 = IDI - Inside Dimension 12 = BNB - Beam Number Blocked 13 = BNM - Beam Number Made 14 = ALARM - as configured by SOPAS 15 = Process Quality 16 = Teach Quality 17...32 = RLC-1...16 = 1st to 16th value of the Run-Length-Code		1	Operand 1	Offset	24 Bit			0 = NBB - Anzahl unterbrochener Strahlen 1 = NBM - Anzahl freier Strahlen 2 = FBB - erster unterbrochener Strahl 3 = FBM - erster freier Strahl 4 = LBB - letzter unterbrochener Strahl 5 = LBM - letzter freier Strahl 6 = NCBB - Anzahl zusammenhängend unterbrochener Strahlen 7 = NCBM - Anzahl zusammenhängend freier Strahlen 8 = CBB - zentraler unterbrochener Strahl 9 = CBM - zentraler freier Strahl 10 = ODI - Außen-Durchmesser 11 = IDI - Innen-Durchmesser 12 = BNB - Anzahl unterbrochener Strahlen 13 = BNM - Anzahl freier Strahlen 14 = ALARM - wie über SOPAS konfiguriert 15 = Prozess-Qualität 16 = Teach-Qualität 17...32 = RLC1...16 = 1ster bis 16ter Wechsel im Run-Length-Code
	2	Operator		16 Bit		0 = == (equal) 1 = >= (greater or equal) 2 = <= (less or equal) 3 = != (not equal)			2	Operator		16 Bit		0 = == 1 = >= 2 = <= 3 = !=	
	3	Operand 2		0 Bit		0...510			3	Operand 2		0 Bit		0...512	

SICK device specific								DEUTSCH							
Index dec (hex)	Sub Index	Name	Format	Length (Offset)	access	Default Value	Value / Range	Index dec (hex)	Sub Index	Name	Format	Length (Offset)	access	Default Value	Value / Range
183 (0xB7)		Output 1 (Q1) Configuration	Record	4 Byte	rw			183 (0xB7)		Ausgang 1 (Q1) Konfiguration	Record	4 Byte	rw		
	1	Operand 1	Offset	24 Bit			0 = NBB - Number Beams Blocked 1 = NBM - Number Beams Made 2 = FBB - First Beam Blocked 3 = FBM - First Beam Made 4 = LBB - Last Beam Blocked 5 = LBM - Last Beam Made 6 = NCBB - Number of Consecutive Beams Blocked 7 = NCBM - Number of Consecutive Beams Made 8 = CBB - Central Beam Blocked 9 = CBM - Central Beam Made 10 = ODI - Outside Dimension 11 = IDI - Inside Dimension 12 = BNB - Beam Number Blocked 13 = BNM - Beam Number Made 14 = ALARM - as configured by SOPAS 15 = Process Quality 16 = Teach Quality 17...32 = RLC-1...16 = 1st to 16th value of the Run-Length-Code		1	Operand 1	Offset	24 Bit			0 = NBB - Anzahl unterbrochener Strahlen 1 = NBM - Anzahl freier Strahlen 2 = FBB - erster unterbrochener Strahl 3 = FBM - erster freier Strahl 4 = LBB - letzter unterbrochener Strahl 5 = LBM - letzter freier Strahl 6 = NCBB - Anzahl zusammenhängend unterbrochener Strahlen 7 = NCBM - Anzahl zusammenhängend freier Strahlen 8 = CBB - zentraler unterbrochener Strahl 9 = CBM - zentraler freier Strahl 10 = ODI - Außen-Durchmesser 11 = IDI - Innen-Durchmesser 12 = BNB - Anzahl unterbrochener Strahlen 13 = BNM - Anzahl freier Strahlen 14 = ALARM - wie über SOPAS konfiguriert 15 = Prozess-Qualität 16 = Teach-Qualität 17...32 = RLC1...16 = 1ster bis 16ter Wechsel im Run-Length-Code
	2	Operator		16 Bit		0 = == (equal) 1 = >= (greater or equal) 2 = <= (less or equal) 3 = != (not equal)			2	Operator		16 Bit		0 = == (gleich) 1 = >= (größer gleich) 2 = <= (kleiner gleich) 3 = != (ungleich)	
	3	Operand 2		0 Bit		0...510			3	Operand 2		0 Bit		0...510	
184 (0xB8)		Output 2 (Q2) Configuration	Record	4 Byte	rw			184 (0xB8)		Ausgang 2 (Q2) Konfiguration	Record	4 Byte	rw		
	1	Operand 1	Offset	24 Bit			0 = NBB - Number Beams Blocked 1 = NBM - Number Beams Made 2 = FBB - First Beam Blocked 3 = FBM - First Beam Made 4 = LBB - Last Beam Blocked 5 = LBM - Last Beam Made 6 = NCBB - Number of Consecutive Beams Blocked 7 = NCBM - Number of Consecutive Beams Made 8 = CBB - Central Beam Blocked 9 = CBM - Central Beam Made 10 = ODI - Outside Dimension 11 = IDI - Inside Dimension 12 = BNB - Beam Number Blocked 13 = BNM - Beam Number Made 14 = ALARM - as configured by SOPAS 15 = Process Quality 16 = Teach Quality 17...32 = RLC-1...16 = 1st to 16th value of the Run-Length-Code		1	Operand 1	Offset	24 Bit			0 = NBB - Anzahl unterbrochener Strahlen 1 = NBM - Anzahl freier Strahlen 2 = FBB - erster unterbrochener Strahl 3 = FBM - erster freier Strahl 4 = LBB - letzter unterbrochener Strahl 5 = LBM - letzter freier Strahl 6 = NCBB - Anzahl zusammenhängend unterbrochener Strahlen 7 = NCBM - Anzahl zusammenhängend freier Strahlen 8 = CBB - zentraler unterbrochener Strahl 9 = CBM - zentraler freier Strahl 10 = ODI - Außen-Durchmesser 11 = IDI - Innen-Durchmesser 12 = BNB - Anzahl unterbrochener Strahlen 13 = BNM - Anzahl freier Strahlen 14 = ALARM - wie über SOPAS konfiguriert 15 = Prozess-Qualität 16 = Teach-Qualität 17...32 = RLC1...16 = 1ster bis 16ter Wechsel im Run-Length-Code
	2	Operator		16 Bit		0 = == (equal) 1 = >= (greater or equal) 2 = <= (less or equal) 3 = != (not equal)			2	Operator		16 Bit		0 = == 1 = >= 2 = <= 3 = !=	
	3	Operand 2		0 Bit		0...510			3	Operand 2		0 Bit		0...512	

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185 (0xB9)	Output 3 (Q3) Configuration	Record	4 Byte	rw			185 (0xB9)	Ausgang 3 (Q3) Konfiguration	Record	4 Byte	rw							
1	Operand 1	Offset	24 Bit			0 = NBB - Number Beams Blocked 1 = NBM - Number Beams Made 2 = FBB - First Beam Blocked 3 = FBM - First Beam Made 4 = LBB - Last Beam Blocked 5 = LBM - Last Beam Made 6 = NCBB - Number of Consecutive Beams Blocked 7 = NCBM - Number of Consecutive Beams Made 8 = CBB - Central Beam Blocked 9 = CBM - Central Beam Made 10 = ODI - Outside Dimension 11 = IDI - Inside Dimension 12 = BNB - Beam Number Blocked 13 = BNM - Beam Number Made 14 = ALARM - as configured by SOPAS 15 = Process Quality 16 = Teach Quality 17..32 = RLC-1...16 = 1st to 16th value of the Run-Length-Code	1	Operand 1	Offset	24 Bit			0 = NBB - Anzahl unterbrochener Strahlen 1 = NBM - Anzahl freier Strahlen 2 = FBB - erster unterbrochener Strahl 3 = FBM - erster freier Strahl 4 = LBB - letzter unterbrochener Strahl 5 = LBM - letzter freier Strahl 6 = NCBB - Anzahl zusammenhängend unterbrochener Strahlen 7 = NCBM - Anzahl zusammenhängend freier Strahlen 8 = CBB - zentraler unterbrochener Strahl 9 = CBM - zentraler freier Strahl 10 = ODI - Außen-Durchmesser 11 = IDI - Innen-Durchmesser 12 = BNB - Anzahl unterbrochener Strahlen 13 = BNM - Anzahl freier Strahlen 14 = ALARM - wie über SOPAS konfiguriert 15 = Prozess-Qualität 16 = Teach-Qualität 17..32 = RLC1...16 = 1ster bis 16ter Wechsel im Run-Length-Code					
	2					Operator							16 Bit	0 = == 1 = >= 2 = <= 3 = !=	2	Operator	16 Bit	0 = == 1 = >= 2 = <= 3 = !=
	3					Operand 2							0 Bit	0..512	3	Operand 2	0 Bit	0..512
186 (0xBA)	Output 4 (Q4) Configuration	Record	4 Byte	rw		0 = NBB - Number Beams Blocked 1 = NBM - Number Beams Made 2 = FBB - First Beam Blocked 3 = FBM - First Beam Made 4 = LBB - Last Beam Blocked 5 = LBM - Last Beam Made 6 = NCBB - Number of Consecutive Beams Blocked 7 = NCBM - Number of Consecutive Beams Made 8 = CBB - Central Beam Blocked 9 = CBM - Central Beam Made 10 = ODI - Outside Dimension 11 = IDI - Inside Dimension 12 = BNB - Beam Number Blocked 13 = BNM - Beam Number Made 14 = ALARM - as configured by SOPAS 15 = Process Quality 16 = Teach Quality 17..32 = RLC-1...16 = 1st to 16th value of the Run-Length-Code	1	Operand 1	Offset	24 Bit			0 = NBB - Anzahl unterbrochener Strahlen 1 = NBM - Anzahl freier Strahlen 2 = FBB - erster unterbrochener Strahl 3 = FBM - erster freier Strahl 4 = LBB - letzter unterbrochener Strahl 5 = LBM - letzter freier Strahl 6 = NCBB - Anzahl zusammenhängend unterbrochener Strahlen 7 = NCBM - Anzahl zusammenhängend freier Strahlen 8 = CBB - zentraler unterbrochener Strahl 9 = CBM - zentraler freier Strahl 10 = ODI - Außen-Durchmesser 11 = IDI - Innen-Durchmesser 12 = BNB - Anzahl unterbrochener Strahlen 13 = BNM - Anzahl freier Strahlen 14 = ALARM - wie über SOPAS konfiguriert 15 = Prozess-Qualität 16 = Teach-Qualität 17..32 = RLC1...16 = 1ster bis 16ter Wechsel im Run-Length-Code					
	2					Operator							16 Bit	0 = == 1 = >= 2 = <= 3 = !=	2	Operator	16 Bit	0 = == 1 = >= 2 = <= 3 = !=
	3					Operand 2							0 Bit	0..512	3	Operand 2	0 Bit	0..512

SICK spezifisch							DEUTSCH											
185 (0xB9)	Ausgang 3 (Q3) Konfiguration	Record	4 Byte	rw			185 (0xB9)	Ausgang 3 (Q3) Konfiguration	Record	4 Byte	rw							
1	Operand 1	Offset	24 Bit			0 = NBB - Number Beams Blocked 1 = NBM - Number Beams Made 2 = FBB - First Beam Blocked 3 = FBM - First Beam Made 4 = LBB - Last Beam Blocked 5 = LBM - Last Beam Made 6 = NCBB - Number of Consecutive Beams Blocked 7 = NCBM - Number of Consecutive Beams Made 8 = CBB - Central Beam Blocked 9 = CBM - Central Beam Made 10 = ODI - Outside Dimension 11 = IDI - Inside Dimension 12 = BNB - Beam Number Blocked 13 = BNM - Beam Number Made 14 = ALARM - as configured by SOPAS 15 = Process Quality 16 = Teach Quality 17..32 = RLC-1...16 = 1st to 16th value of the Run-Length-Code	1	Operand 1	Offset	24 Bit			0 = NBB - Anzahl unterbrochener Strahlen 1 = NBM - Anzahl freier Strahlen 2 = FBB - erster unterbrochener Strahl 3 = FBM - erster freier Strahl 4 = LBB - letzter unterbrochener Strahl 5 = LBM - letzter freier Strahl 6 = NCBB - Anzahl zusammenhängend unterbrochener Strahlen 7 = NCBM - Anzahl zusammenhängend freier Strahlen 8 = CBB - zentraler unterbrochener Strahl 9 = CBM - zentraler freier Strahl 10 = ODI - Außen-Durchmesser 11 = IDI - Innen-Durchmesser 12 = BNB - Anzahl unterbrochener Strahlen 13 = BNM - Anzahl freier Strahlen 14 = ALARM - wie über SOPAS konfiguriert 15 = Prozess-Qualität 16 = Teach-Qualität 17..32 = RLC1...16 = 1ster bis 16ter Wechsel im Run-Length-Code					
	2					Operator							16 Bit	0 = == 1 = >= 2 = <= 3 = !=	2	Operator	16 Bit	0 = == 1 = >= 2 = <= 3 = !=
	3					Operand 2							0 Bit	0..512	3	Operand 2	0 Bit	0..512
186 (0xBA)	Ausgang 4 (Q4) Konfiguration	Record	4 Byte	rw		0 = NBB - Number Beams Blocked 1 = NBM - Number Beams Made 2 = FBB - First Beam Blocked 3 = FBM - First Beam Made 4 = LBB - Last Beam Blocked 5 = LBM - Last Beam Made 6 = NCBB - Number of Consecutive Beams Blocked 7 = NCBM - Number of Consecutive Beams Made 8 = CBB - Central Beam Blocked 9 = CBM - Central Beam Made 10 = ODI - Outside Dimension 11 = IDI - Inside Dimension 12 = BNB - Beam Number Blocked 13 = BNM - Beam Number Made 14 = ALARM - as configured by SOPAS 15 = Process Quality 16 = Teach Quality 17..32 = RLC-1...16 = 1st to 16th value of the Run-Length-Code	1	Operand 1	Offset	24 Bit			0 = NBB - Anzahl unterbrochener Strahlen 1 = NBM - Anzahl freier Strahlen 2 = FBB - erster unterbrochener Strahl 3 = FBM - erster freier Strahl 4 = LBB - letzter unterbrochener Strahl 5 = LBM - letzter freier Strahl 6 = NCBB - Anzahl zusammenhängend unterbrochener Strahlen 7 = NCBM - Anzahl zusammenhängend freier Strahlen 8 = CBB - zentraler unterbrochener Strahl 9 = CBM - zentraler freier Strahl 10 = ODI - Außen-Durchmesser 11 = IDI - Innen-Durchmesser 12 = BNB - Anzahl unterbrochener Strahlen 13 = BNM - Anzahl freier Strahlen 14 = ALARM - wie über SOPAS konfiguriert 15 = Prozess-Qualität 16 = Teach-Qualität 17..32 = RLC1...16 = 1ster bis 16ter Wechsel im Run-Length-Code					
	2					Operator							16 Bit	0 = == 1 = >= 2 = <= 3 = !=	2	Operator	16 Bit	0 = == 1 = >= 2 = <= 3 = !=
	3					Operand 2							0 Bit	0..512	3	Operand 2	0 Bit	0..512

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ENGLISH						
SICK device specific						
Index dec (hex)	Name	Format	Length	Access	Default Value	Value / Range
188 (0xBC)	Blank all Currently Blocked Beams	UInt	8 Bit	wo		1 = Execute
189 (0xBD)	Blank all Currently Made Beams	UInt	8 Bit	wo		1 = Execute
204 (0xCC)	Find Me	UInt	8 Bit	rw	0	0 = Find Me Inactive 1 = LED's blink with 1 Hz
205 (0xCD)	SICK Profile Version	String	4 Byte	ro	1.00	
224 (0xE0)	Teach-In Quality in %	UInt	8 Bit	ro		
225 (0xE1)	Process Quality in %	UInt	8 Bit	ro		
Standard Command						
Index dec (hex)	Name	Format	Length	Access	Default Value	Value / Range
2 (0x02)	Standard Command	UInt	8 Bit	wo		128 = Device Reset 130 = Restore Factory Settings 160 = Teach
Events						
Code dec (hex)	Name	Type				
6144 (0x1800)	Teach Successful Event	Notification				
6145 (0x1801)	Teach Fail Event	Error				
6146 (0x1802)	Contamination Event	Warning				
6147 (0x1803)	Hardware Error Event	Error				
6148 (0x1804)	Short Circuit Event	Warning				
6149 (0x1805)	Over Temperature Event	Warning				
6150 (0x1806)	Synchronization Fail Event	Error				
Error						
Code dec (hex)	Additional Code	Name				
128 (0x80)	0 (0x00)	Device application error - no details				
128 (0x80)	17 (0x11)	Index not available				
128 (0x80)	18 (0x12)	Subindex not available				
128 (0x80)	32 (0x20)	Service temporarily not available				
128 (0x80)	33 (0x21)	Service temporarily not available - local control				
128 (0x80)	34 (0x22)	Service temporarily not available - device control				
128 (0x80)	35 (0x23)	Access denied				
128 (0x80)	48 (0x30)	Parameter value out of range				
128 (0x80)	49(0x31)	Parameter value above limit				
128 (0x80)	50 (0x32)	Parameter value below limit				
128 (0x80)	51 (0x33)	Parameter length overrun				
128 (0x80)	52 (0x34)	Parameter length underrun				
128 (0x80)	53 (0x35)	Function not available				
128 (0x80)	54 (0x36)	Function temporarily unavailable				
128 (0x80)	64 (0x40)	Invalid parameter set				
128 (0x80)	65 (0x41)	Inconsistent parameter set				
128 (0x80)	130 (0x82)	Application not ready				

DEUTSCH						
SICK spezifisch						
Index dez (hex)	Name	Format	Länge	Zugriff	Standard-Wert	Wertebereich
188 (0xBC)	Ausblendung aller aktuell unterbrochenen Strahlen	UInt	8 Bit	wo		1 = Ausführen
189 (0xBD)	Ausblendung aller aktuell freien Strahlen	UInt	8 Bit	wo		1 = Ausführen
204 (0xCC)	Find Mich	UInt	8 Bit	rw	0	0 = Find Mich inaktiv 1 = LED's blinken mit 1 Hz
205 (0xCD)	SICK Profil Version	String	4 Byte	ro	1.00	
224 (0xE0)	Teach-In-Qualität in %	UInt	8 Bit	ro		
225 (0xE1)	Prozess-Qualität in %	UInt	8 Bit	ro		
Standardkommando						
Index dez (hex)	Name	Format	Länge	Zugriff	Standard-Wert	Wertebereich
2 (0x02)	Standardkommando	UInt	8 Bit	wo		128 = Gerät rücksetzen 130 = Auslieferungszustand wiederherstellen 160 = Teach
Ereignisse						
Code dec (hex)	Name	Typ				
6144 (0x1800)	Teach erfolgreich Ereignis	Meldung				
6145 (0x1801)	Teach fehlgeschlagen Ereignis	Fehler				
6146 (0x1802)	Verschmutzung Ereignis	Warnung				
6147 (0x1803)	Gerätefehler Ereignis	Fehler				
6148 (0x1804)	Kurzschluss Ereignis	Warnung				
6149 (0x1805)	Übertemperatur Ereignis	Warnung				
6150 (0x1806)	Synchronisationsfehler Ereignis	Fehler				
Fehler						
Code dec (hex)	Additional Code	Name				
128 (0x80)	0 (0x00)	Anwendungsfehler im Gerät - keine Details				
128 (0x80)	17 (0x11)	Index nicht vorhanden				
128 (0x80)	18 (0x12)	Subindex nicht vorhanden				
128 (0x80)	32 (0x20)	Service zur Zeit nicht verfügbar				
128 (0x80)	33 (0x21)	Service zur Zeit nicht verfügbar - lokaler Betriebsmodus				
128 (0x80)	34 (0x22)	Service zur Zeit nicht verfügbar - Geräte Betriebsmodus				
128 (0x80)	35 (0x23)	Zugriff verweigert				
128 (0x80)	48 (0x30)	Parameterwert außerhalb des gültigen Bereichs				
128 (0x80)	49(0x31)	Parameterwert oberhalb der zulässigen Grenze				
128 (0x80)	50 (0x32)	Parameterwert unterhalb der zulässigen Grenze				
128 (0x80)	51 (0x33)	Parameterlänge zu groß				
128 (0x80)	52 (0x34)	Parameterlänge zu klein				
128 (0x80)	53 (0x35)	Funktion nicht verfügbar				
128 (0x80)	54 (0x36)	Funktion zur Zeit nicht verfügbar				
128 (0x80)	64 (0x40)	Ungültiger Parametersatz				
128 (0x80)	65 (0x41)	Inkonsistenter Parametersatz				
128 (0x80)	130 (0x82)	Applikation nicht bereit				