



8017124 0614

Automation light grids

1754545210
9208433

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
Brazil Phone +55 11 3215-4900	Polka Phone +48 22 837 40 50
Canada Phone +1 905 771 14 44	România Phone +40 356 171 120
China Phone +86 400 121 000	Russland Phone +7 495 775 09 30
China Phone +86 21 63 6300	Schweiz Phone +41 41 619 29 39
Danmark Phone +45 45 82 64 00	Schweden Phone +46 10 110 10 00
Deutschland Phone +49 211 5301 301	Slovenien Phone +386 (0)147 69 990
España Phone +34 93 480 31 00	Sonstige Phone +27 11 472 3733
France Phone +33 1 64 62 39 00	South Korea Phone +82 2 786 6322/4
Great Britain Phone +44 (0)1727 83121	Sri Lanka Phone +94 10 110 10 00
India Phone +91-22-4033 8333	Taiwan Phone +886-2375-0288
Italy Phone +39 02 27 43 41	Türkiye Phone +90 (216) 538 50 00
Japan Phone +81 (0)3 3558 1341	United Arab Emirates Phone +971 (0)4 5865 878
Magnonville Phone +36 1 371 2680	USA/Mexico Phone +12952 9416780
Niederland Phone +31 (0)30 229 25 44	

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

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

8211942

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 anførte produktetskræber 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 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

Hinweis: gültig für IO-Link V1.0.1

Note: valid for IO-Link V1.0.1

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 = RLC 2 - 2nd value of the Run-Length-Code 3 = RLC 3 - 3rd value of the Run-Length-Code 4 = RLC 4 - 4th value of the Run-Length-Code 5 = RLC 5 - 5th value of the Run-Length-Code 6 = RLC 6 - 6th value of the Run-Length-Code 7 = RLC 7 - 7th value of the Run-Length-Code 8 = RLC 8 - 8th value of the Run-Length-Code 9 = RLC 9 - 9th value of the Run-Length-Code 10 = RLC 10 - 10th value of the Run-Length-Code 11 = RLC 11 - 11th value of the Run-Length-Code 12 = RLC 12 - 12th value of the Run-Length-Code 13 = RLC 13 - 13th value of the Run-Length-Code 14 = RLC 14 - 14th value of the Run-Length-Code 15 = RLC 15 - 15th value of the Run-Length-Code 16 = RLC 16 - 16th value of the Run-Length-Code 17 = System Status (High-Byte) and Q-Status (Low-Byte) 18 = NBB Number Beams Blocked 19 = NBM Number Beams Made 20 = FBB First Beam Blocked 21 = FBM First Beam Made 22 = LBB Last Beam Blocked 23 = LBM Last Beam Made 24 = NCBB Number of Consecutive Beams Blocked 25 = NCBM Number of Consecutive Beams Made 26 = CBB Central Beam Blocked 27 = CBM Central Beam Made 28 = ODI Outside Dimension 29 = IDI Inside Dimension 30 = Virtual Outputs (VOs) 31 = Teach-in Quality 32 = Process Quality 33 = Flow Counter		
	2	user defined Output Function 2		112 Bit					
	3	user defined Output Function 3		104 Bit					
	4	user defined Output Function 4		96 Bit					
	5	user defined Output Function 5		88 Bit					
	6	user defined Output Function 6		80 Bit					
	7	user defined Output Function 7		72 Bit					
	8	user defined Output Function 8		64 Bit					
	9	user defined Output Function 9	Offset	56 Bit					
	10	user defined Output Function 10		48 Bit					
	11	user defined Output Function 11		40 Bit					
	12	user defined Output Function 12		32 Bit					
	13	user defined Output Function 13		24 Bit					
	14	user defined Output Function 14		16 Bit					
	15	user defined Output Function 15		8 Bit					
	16	user defined Output Function 16		0 Bit					
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-in Enable	UInt	8 Bit	rw	0	0 = Blanking Teach-in Inactive 1 = Blanking Teach-in 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 = RLC 2 - 2ster Wechsel im Run-Length-Code 3 = RLC 3 - 3ster Wechsel im Run-Length-Code 4 = RLC 4 - 4ster Wechsel im Run-Length-Code 5 = RLC 5 - 5ster Wechsel im Run-Length-Code 6 = RLC 6 - 6ster Wechsel im Run-Length-Code 7 = RLC 7 - 7ster Wechsel im Run-Length-Code 8 = RLC 8 - 8ster Wechsel im Run-Length-Code 9 = RLC 9 - 9ster Wechsel im Run-Length-Code 10 = RLC 10 - 10ster Wechsel im Run-Length-Code 11 = RLC 11 - 11ster Wechsel im Run-Length-Code 12 = RLC 12 - 12ster Wechsel im Run-Length-Code 13 = RLC 13 - 13ster Wechsel im Run-Length-Code 14 = RLC 14 - 14ster Wechsel im Run-Length-Code 15 = RLC 15 - 15ster Wechsel im Run-Length-Code 16 = RLC 16 - 16ster Wechsel im Run-Length-Code 17 = System-Status (High-Byte) und Q-Status (Low-Byte) 18 = NBB Anzahl unterbrochener Strahlen 19 = NBM Anzahl freier Strahlen 20 = FBB erster unterbrochener Strahl 21 = FBM erster freier Strahl 22 = LBB letzter unterbrochener Strahl 23 = LBM letzter freier Strahl 24 = NCBB Anzahl zusammenhängend unterbrochener Strahlen 25 = NCBM Anzahl zusammenhängend freier Strahlen 26 = CBB zentraler unterbrochener Strahl 27 = CBM zentraler freier Strahl 28 = ODI Außendurchmesser 29 = IDI Innendurchmesser 30 = virtuelle Ausgänge (VOs) 31 = Teach-in-Qualität 32 = Prozess-Qualität 33 = Telegramm-Zähler		
	2	frei definierte Ausgangsfunktion 2		112 Bit					
	3	frei definierte Ausgangsfunktion 3		104 Bit					
	4	frei definierte Ausgangsfunktion 4		96 Bit					
	5	frei definierte Ausgangsfunktion 5		88 Bit					
	6	frei definierte Ausgangsfunktion 6		80 Bit					
	7	frei definierte Ausgangsfunktion 7		72 Bit					
	8	frei definierte Ausgangsfunktion 8		64 Bit					
	9	frei definierte Ausgangsfunktion 9	Offset	56 Bit					
	10	frei definierte Ausgangsfunktion 10		48 Bit					
	11	frei definierte Ausgangsfunktion 11		40 Bit					
	12	frei definierte Ausgangsfunktion 12		32 Bit					
	13	frei definierte Ausgangsfunktion 13		24 Bit					
	14	frei definierte Ausgangsfunktion 14		16 Bit					
	15	frei definierte Ausgangsfunktion 15		8 Bit					
	16	frei definierte Ausgangsfunktion 16		0 Bit					
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-in	UInt	8 Bit	rw	0	0 = Ausblend-Teach-in inaktiv 1 = Ausblend-Teach-in aktiv		

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



8017124 0614

Automation light grids

1754545210
9208433

- | | |
|--|---|
| <p>Australia
Phone +61 3 9457 0800</p> <p>Belgium/Luxembourg
Phone +32 (0)2 468 35 66</p> <p>Brasil
Phone +55 11 5215-4900</p> <p>Canada
Phone +1 905 771 14 44</p> <p>China
Phone +86 4000 121 000</p> <p>Danmark
Phone +45 45 82 64 00</p> <p>Deutschland
Phone +386 (0)147 69 990</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 831321</p> <p>India
Phone +91-22-4033 8333</p> <p>Italia
Phone +39 02 27 43 41</p> <p>Japan
Phone +81 (0)3 3358 1341</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 02 28-80</p> <p>Norge
Phone +47 67 61 50 00</p> <p>Polka
Phone +49 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>Schwiz
Phone +41 52 53 63 000</p> <p>Sveits
Phone +41 52 53 63 000</p> <p>Sveits
Phone +41 52 53 63 000</p> <p>Sveits
Phone +41 52 53 63 000</p> <p>Sveits
Phone +41 52 53 63 000</p> <p>Sveits
Phone +41 52 53 63 000</p> <p>Sveits
Phone +41 52 53 63 000</p> <p>Sveits
Phone +41 52 53 63 000</p> |
|--|---|

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

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

822/1042

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 anførte produktetskræb 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 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正确性不予保证。



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

Hinweis: gültig für IO-Link V1.0.1

Note: valid for IO-Link V1.0.1

SICK device specific							ENGLISH															
Index dec (hex)	Sub index	Name	Format	Length (Offset)	access	Default Value	Value / Range															
72 (0x48)	1	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 inactive 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		64 Bit																		
	3	Reproducibility		32 Bit																		
	4	Minimum Presence Time		16 Bit																		
	5	Response Time		0 Bit																		
98 (0x62)		Teach-in Result	UInt	8 Bit	ro			Bit Offset	7	6	5	4	3	2	1	0						
									0	AutoTeach not possible	Teach-In Failure beamblanking	HgSpeedScan not possible	Teach-In Failure warning beam signal obsolete	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			Bit Offset	7	6	5	4	3	2	1	0						
									0	Sync Error	Teach Fail	Hardware 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 %	Offset	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							DEUTSCH															
Index dez (hex)	Sub Index	Name	Format	Länge (Offset)	Zugriff	Standard-Wert	Wertebereich															
72 (0x48)	1	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 Steckseite 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		64 Bit																		
	3	Wiederholgenauigkeit		32 Bit																		
	4	Mindestverweildauer		16 Bit																		
	5	Ansprechzeit		0 Bit																		
98 (0x62)		Teach-in Ergebnis	UInt	8 Bit	ro			Bit Offset	7	6	5	4	3	2	1	0						
									0	AutoTeach nicht erfolgreich	Teach-In Fehler Ausblendung	HgSpeedScan nicht möglich	Teach-In Fehler Kreuzstrahl-Strahlblind	Warning Strahl-Signal überstrahlt	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			Bit Offset	7	6	5	4	3	2	1	0						
									0	Sync Fehler	Teach-Fehler	Hardware Fehler	Verschmutzungs-messung VMM	Teach Active	Über-Temperatur	Prozessdaten ungültig	Q-Kurzschluss					
								Wert				0 = falsch	1 = wahr									
101 (0x65)		Ausrichtungshilfe	Record	3 Byte	ro																	
	1	Signalstärke des ersten Strahls in %		16 Bit																		
	2	Signalstärke des letzten Strahls in %	Offset	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															



8017124 0614

Automation light grids

1754545210
9208433

<p>Australia Phone +61 3 9457 0800</p> <p>Belgium/Luxembourg Phone +32 (0)2 468 35 66</p> <p>Brasil Phone +55 11 3215-4900</p> <p>Canada Phone +1 905 771 14 44</p> <p>Česká republika Phone +420 2 57 91 18 50</p> <p>China Phone +86 4000 121 000 +852 2153 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 62 42 35 00</p> <p>Great Britain Phone +44 (0)1727 831121</p> <p>India Phone +91-22-4033 8333</p> <p>Italy Phone +372 4 6801000</p> <p>Japan Phone +39 02 27 43 41</p> <p>Japan Phone +81 (0)3 3568 1341</p> <p>Magyarország 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 07 51 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>Singapore Phone +65 6744 3732</p> <p>Sveitslrig 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>
---	---

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

8211462

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

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.

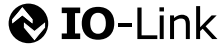
Fiere representanter og agenturer på www.sick.com - Med forbehold for ændringer og fejl - De enkelte produktetskræber og tekniske data udgår ikke nogen garantierklæring.

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 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

Hinweis: gültig für IO-Link V1.0.1

Note: valid for IO-Link V1.0.1

ENGLISH							
SICK device specific							
Index dec (hex)	Sub Index	Name	Format	Length (Offset)	access	Default Value	Value / Range
183 (0xB7)		Output 1 (Q1) 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-in Quality 17..32 = RLC-1...16 = 1st to 16th value of the Run-Length-Code
	1	Operand 1		24 Bit			
				Offset			
	2	Operator		16 Bit			0 = == (equal) 1 = >= (greater or equal) 2 = <= (less or equal) 3 = != (not equal)
	3	Operand 2		0 Bit			0..510
184 (0xB8)		Output 2 (Q2) 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-in Quality 17..32 = RLC-1...16 = 1st to 16th value of the Run-Length-Code
	1	Operand 1		24 Bit			
				Offset			
	2	Operator		16 Bit			0 = == (equal) 1 = >= (greater or equal) 2 = <= (less or equal) 3 = != (not equal)
	3	Operand 2		0 Bit			0..510

DEUTSCH							
SICK spezifisch							
Index dez (hex)	Sub Index	Name	Format	Länge (Offset)	Zugriff	Standard-Wert	Wertebereich
183 (0xB7)		Ausgang 1 (Q1) Konfiguration	Record	4 Byte	rw		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-in-Qualität 17..32 = RLC1...16 = 1ster bis 16ter Wechsel im Run-Length-Code
	1	Operand 1		24 Bit			
				Offset			
	2	Operator		16 Bit			0 = == (gleich) 1 = >= (größer gleich) 2 = <= (kleiner gleich) 3 = != (ungleich)
	3	Operand 2		0 Bit			0..510
184 (0xB8)		Ausgang 2 (Q2) Konfiguration	Record	4 Byte	rw		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-in-Qualität 17..32 = RLC1...16 = 1ster bis 16ter Wechsel im Run-Length-Code
	1	Operand 1		24 Bit			
				Offset			
	2	Operator		16 Bit			0 = == (gleich) 1 = >= (größer gleich) 2 = <= (kleiner gleich) 3 = != (ungleich)
	3	Operand 2		0 Bit			0..510



8017124 0614

Automation light grids

1754545210
9208433

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 3215-4900	Polka Phone +48 22 837 40 50
Canada Phone +1 905 771 14 44	România Phone +40 356 171 120
China Phone +86 400 121 000 +852-2153-6300	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	Singapur Phone +65 6744 3732
España Phone +34 93 480 31 00	South Africa Phone +27 11 472 3733
France Phone +33 1 64 42 39 00	Spain Phone +358 9 25 15 800
Great Britain Phone +44 (0)1727 831121	Sri Lanka Phone +91 22 4033 8333
India Phone +91-22-4033 8333	Taiwan Phone +886 2 2375-6288
Israel Phone +972 4 6801000	Türkiye Phone +90 (216) 538 50 00
Italy Phone +39 02 27 43 41	United Arab Emirates Phone +971 (0)4 5855 878
Japan Phone +81 (0) 3558 1341	USA/Mexico Phone +1 (952) 941 6780
Magnesium Phone +36 1 271 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

8211042

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 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 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

Hinweis: gültig für IO-Link V1.0.1

Note: valid for IO-Link V1.0.1

ENGLISH					
SICK device specific					
185 (0xB9)	Output 3 (Q3) Configuration	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-in Quality 17..32 = RLC-1...16 = 1st to 16th value of the Run-Length-Code
					0 = == (equal) 1 = >= (greater or equal) 2 = <= (less or equal) 3 = != (not equal) 0..510
	2	Operator	16 Bit		
3	Operand 2		0 Bit		
186 (0xBA)	Output 4 (Q4) Configuration	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-in Quality 17..32 = RLC-1...16 = 1st to 16th value of the Run-Length-Code
					0 = == (equal) 1 = >= (greater or equal) 2 = <= (less or equal) 3 = != (not equal) 0..510
	2	Operator	16 Bit		
3	Operand 2		0 Bit		

DEUTSCH					
SICK spezifisch					
185 (0xB9)	Ausgang 3 (Q3) Konfiguration	Record	4 Byte	rw	
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-in-Qualität 17..32 = RLC1...16 = 1ster bis 16ter Wechsel im Run-Length-Code
					0 = == (gleich) 1 = >= (größer gleich) 2 = <= (kleiner gleich) 3 = != (ungleich) 0..510
	2	Operator	16 Bit		
3	Operand 2		0 Bit		
186 (0xBA)	Ausgang 4 (Q4) Konfiguration	Record	4 Byte	rw	
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-in-Qualität 17..32 = RLC1...16 = 1ster bis 16ter Wechsel im Run-Length-Code
					0 = == (gleich) 1 = >= (größer gleich) 2 = <= (kleiner gleich) 3 = != (ungleich) 0..510
	2	Operator	16 Bit		
3	Operand 2		0 Bit		

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



8017124 0614

Automation light grids

1754545210
9208433

Australia Phone +61 3 9467 0800
Belgium/Luxembourg Phone +32 (0)2 468 55 66
Brazil Phone +55 11 3215-4900
Canada Phone +1 905 771 14 44
Czech Republic Phone +420 2 57 91 18 50
China Phone +86 400 121 000
+852-2553 6300
Denmark Phone +45 45 82 64 00
Deutschland Phone +49 211 5301 301
España Phone +34 93 480 31 00
France Phone +33 1 64 62 35 00
Great Britain Phone +44 (0)1727 831521
India Phone +91-22-4033 8333
Israel Phone +972-4-6801000
Italien Phone +39 02 27 43 41
Japan Phone +81 (03) 3558 1341
Magyarország Phone +36 1 371 2680
Niederland Phone +31 (0)30 229 25 44
SICK AG, Erwin-Sick-Strasse 1, D.79183 Waldkirch

Osterreich Phone +43 (0)32 36 62 28 8-0
Norge Phone +47 67 61 50 00
Polska Phone +48 22 837 40 50
Rumänien Phone +40 356 171 120
Rusland Phone +7 495 775 05 30
Schweiz Phone +41 41 619 29 39
Svejskietel Phone +45 6744 3732
Sverige Phone +46 10 110 10 00
Suomi Phone +358 9 25 15 800
Tailand Phone +66 2 786 6322/4
Türkiye Phone +90 (216) 528 50 00
United Arab Emirates Phone +971 (0) 4 9565 878
USA/Mexico Phone +1 (952) 941 6780

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

02/1942

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.

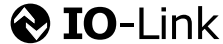
Flerer repræsentanter og agenturer på www.sick.com - Med forbehold for ændringer og fejl - De angivne produkttegnelser og tekniske data udgør ikke nogen garantierklæring.

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正确性不予保证。



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

Hinweis: gültig für IO-Link V1.0.1

Note: valid for IO-Link V1.0.1

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				

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