SICK

8022563 0718

deTec beam data

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BZ.mk43

IO-Link

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

ENGLISH

1. Device features

Supported Smart Sensor Profile Function Classes	none (Smart Sensor Profile not supported)
Supported IO-Link Time Stamp Profile modes	none (IO-Link Time Stamp Profile not supported)
Block Parameter Transmission	not supported
Data Storage functionality	supported
Access Locks (supported / modes)	Data Storage

2. Physical layer

Note: The IO-Link Device's max. current consumption (inclusive load current) shall not exceed the master port's max. output power current.

SIO Modus	yes
Min Cycle Time	16.8 ms
Baudrate[2]	COM2
Process Data Length (IN)	32 Byte
Process Data Length (OUT)	1 Byte
IODD version	V1.0.0
Valid for IO-Link version	1.1.0

3. Process data

Record: 32 Byte

IN	Bitoffset	248	240	232	224
	Byte/Name	See *PD IN0 0	See *PD IN1 1	See *PD IN2 2	See *PD IN3 3
	Type/Subindex	1	9	17	25

IN	Bitoffset	216	208	200	192
	Byte/Name	Reserved 4	Beam 1...8 (far from system plug) 5	Beam 9...16 6	Beam 17...24 7
	Type/Subindex	Unsigned Integer 8 32	Unsigned Integer 8 33	Unsigned Integer 8 34	Unsigned Integer 8 35

IN	Bitoffset	184	176	168	160
	Byte/Name	Beam 25...32 8	Beam 33...40 9	Beam 41...48 10	Beam 49...56 11
	Type/Subindex	Unsigned Integer 8 36	Unsigned Integer 8 37	Unsigned Integer 8 38	Unsigned Integer 8 39

IN	Bitoffset	152	144	136	128
	Byte/Name	Beam 57...64 12	Beam 65...72 13	Beam 73...80 14	Beam 81...88 15
	Type/Subindex	Unsigned Integer 8 40	Unsigned Integer 8 41	Unsigned Integer 8 42	Unsigned Integer 8 43

IN	Bitoffset	120	112	104	96
	Byte/Name	Beam 89...96 16	Beam 97...104 17	Beam 105...112 18	Beam 113...120 19
	Type/Subindex	Unsigned Integer 8 44	Unsigned Integer 8 45	Unsigned Integer 8 46	Unsigned Integer 8 47

IN	Bitoffset	88	80	72	64
	Byte/Name	Beam 121...128 20	Beam 129...136 21	Beam 137...144 22	Beam 145...152 23
	Type/Subindex	Unsigned Integer 8 48	Unsigned Integer 8 49	Unsigned Integer 8 50	Unsigned Integer 8 51

IN	Bitoffset	56	48	40	32
	Byte/Name	Beam 153...160 24	Beam 161...168 25	Beam 169...176 26	Beam 177...184 27
	Type/Subindex	Unsigned Integer 8 52	Unsigned Integer 8 53	Unsigned Integer 8 54	Unsigned Integer 8 55

IN	Bitoffset	24	16	8	0
	Byte/Name	Beam 185...192 28	Beam 193...200 29	Beam 201...208 30	Beam 209...216 31
	Type/Subindex	Unsigned Integer 8 56	Unsigned Integer 8 57	Unsigned Integer 8 58	Unsigned Integer 8 59

Reference: *PD IN0

IN	Bitoffset	255	254	253	252	251	250	249	248
	Byte 0	SrLinkPresent 255	PfIgnoredObjectGuest2 254	PfFreeGuest2 253	PfIgnoredObjectGuest1 252	PfFreeGuest1 251	PfIgnoredObjectHost 250	PfFreeHost 249	SystemOssdActive 248
	Type/Subindex	Boolean 8	Boolean 7	Boolean 6	Boolean 5	Boolean 4	Boolean 3	Boolean 2	Boolean 1

Reference: *PD IN1

IN	Bitoffset	247	246	245	244	243	242	241	240
	Byte 1	EdmWarning 247	EdmActive 246	ResetWarning 245	ResOvrActive 244	ResetRequired 243	WeakGuest2 242	WeakGuest1 241	WeakHost 240
	Type/Subindex	Boolean 16	Boolean 15	Boolean 14	Boolean 13	Boolean 12	Boolean 11	Boolean 10	Boolean 9

Reference: *PD IN2

IN	Bitoffset	239	238	237	236	235	234	233	232
	Byte 2	MutingSignal2 239	MutingSignal1 238	PfFreeAfterOverride 237	OverrideRequired 236	OverrideActive 235	MutingError 234	MutingObjectInPf 233	MutingActive 232
	Type/Subindex	Boolean 24	Boolean 23	Boolean 22	Boolean 21	Boolean 20	Boolean 19	Boolean 18	Boolean 17

Reference: *PD IN3

IN	Bitoffset	231	230	229	228	227	226		224
	Byte 3	StateNormalSendGuest2 231	StateNormalSendGuest1 230	StateNormalSendHost 229	StateNormalRecGuest2 228	StateNormalRecGuest1 227	StateNormalRecHost 226	Reserved 225	224
	Type/Subindex	Boolean 31	Boolean 30	Boolean 29	Boolean 28	Boolean 27	Boolean 26	Unsigned Integer 2	25

[1] ro = read only, wo = write only, rw = read/write
[2] COM values specify the bitrate (see IO-Link specification): COM1 (4,8 kbit/s), COM2 (38,4 kbit/s), COM3 (230,4 kbit/s)

Record: 1 Byte

Bitoffset	0							
Byte/Name	see *PD OUT0	0						
Type/Subindex		1						

Reference: *PD OUT0

Bitoffset	5			4		0		
Byte 0	reserved	7 6 5		ActivateAlignmentLaser	4 3 2 1	ExternalDisplayControl		0
Type/Subindex	Unsigned Integer 3	3		Boolean	2	Unsigned Integer 4		1

4. Service data

The following ISDUs will not be saved via Data-Storage: Direct Parameters 1, Direct Parameters 2, Device Access Locks, Device Specific Tag, SystemInfo, ErrorHistoryRH_00, ErrorHistoryRH_01, ErrorHistoryRH_02, ErrorHistoryRH_03, ErrorHistoryRH_04, ErrorHistoryRH_05, ErrorHistoryRH_06, ErrorHistoryRH_07, ErrorHistoryRH_08, ErrorHistoryRH_09, DeviceIdentRH, SwOffEventRH_00, SwOffEventRH_01, SwOffEventRH_02, SwOffEventRH_03, SwOffEventRH_04, SwOffEventRH_05, SwOffEventRH_06, SwOffEventRH_07, SwOffEventRH_08, SwOffEventRH_09, ErrorHistoryRG1_00, ErrorHistoryRG1_01, ErrorHistoryRG1_02, ErrorHistoryRG1_03, ErrorHistoryRG1_04, ErrorHistoryRG1_05, ErrorHistoryRG1_06, ErrorHistoryRG1_07, ErrorHistoryRG1_08, ErrorHistoryRG1_09, DeviceIdentRG1, SwOffEventRG1_00, SwOffEventRG1_01, SwOffEventRG1_02, SwOffEventRG1_03, SwOffEventRG1_04, SwOffEventRG1_05, SwOffEventRG1_06, SwOffEventRG1_07, SwOffEventRG1_08, SwOffEventRG1_09, ErrorHistoryRG2_00, ErrorHistoryRG2_01, ErrorHistoryRG2_02, ErrorHistoryRG2_03, ErrorHistoryRG2_04, ErrorHistoryRG2_05, ErrorHistoryRG2_06, ErrorHistoryRG2_07, ErrorHistoryRG2_08, ErrorHistoryRG2_09, DeviceIdentRG2, SwOffEventRG2_00, SwOffEventRG2_01, SwOffEventRG2_02, SwOffEventRG2_03, SwOffEventRG2_04, SwOffEventRG2_05, SwOffEventRG2_06, SwOffEventRG2_07, SwOffEventRG2_08, SwOffEventRG2_09, ErrorHistorySH_00, ErrorHistorySH_01, ErrorHistorySH_02, ErrorHistorySH_03, ErrorHistorySH_04, ErrorHistorySH_05, ErrorHistorySH_06, ErrorHistorySH_07, ErrorHistorySH_08, ErrorHistorySH_09, DeviceIdentSH, ErrorHistorySG1_00, ErrorHistorySG1_01, ErrorHistorySG1_02, ErrorHistorySG1_03, ErrorHistorySG1_04, ErrorHistorySG1_05, ErrorHistorySG1_06, ErrorHistorySG1_07, ErrorHistorySG1_08, ErrorHistorySG1_09, DeviceIdentSG1, ErrorHistorySG2_00, ErrorHistorySG2_01, ErrorHistorySG2_02, ErrorHistorySG2_03, ErrorHistorySG2_04, ErrorHistorySG2_05, ErrorHistorySG2_06, ErrorHistorySG2_07, ErrorHistorySG2_08, ErrorHistorySG2_09 and DeviceIdentSG2

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			
2 (0x02)	Data Storage Lock	Bit (1)	1 Bit	rw			
16 (0x10)	Vendor Name	String	64 Byte	ro	SICK AG		
18 (0x12)	Product Name	String	64 Byte	ro	Typekey of the receiver device which is physically connected to the IO-Link master port via the IO-Link connector. This information can also be accessed for every device in a cascade including senders (if sender-receiver link is present) via ISDU DeviceIdent** of respective device (e.g. DeviceIdentRH for receiver host).		
19 (0x13)	Product ID	String	64 Byte	ro	see Index 219		
20 (0x14)	Product Text	String	64 Byte	ro	deTec		
21 (0x15)	Serial Number	String	16 Byte	ro	Serial number of the receiver device which is physically connected to the IO-Link master port via the IO-Link connector. This information can also be accessed for every device in a cascade including senders (if sender-receiver link is present) via ISDU DeviceIdent** of respective device (e.g. DeviceIdentRH for receiver host).		
22 (0x16)	Hardware Version	String	64 Byte	ro	Hardware version of the receiver device which is physically connected to the IO-Link master port via the IO-Link connector. This information can also be accessed for every device in a cascade including senders (if sender-receiver link is present) via ISDU DeviceIdent** of respective device (e.g. DeviceIdentRH for receiver host).		
23 (0x17)	Firmware Version	String	64 Byte	ro	Firmware version of the receiver device which is physically connected to the IO-Link master port via the IO-Link connector. This information can also be accessed for every device in a cascade including senders (if sender-receiver link is present) via ISDU DeviceIdent** of respective device (e.g. DeviceIdentRH for receiver host).		
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	Device status of the receiver device which is physically connected to the IO-Link master port via the IO-Link connector.	
40 (0x28)	Process Data Input	PD In	32 Byte	ro			
41 (0x29)	Process Data Output	PD Out	1 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	***		
190 (0xBE)	OperatingHoursCounter	UInt	32 Bit	ro	0	Incremented after every operating hour and once after each power-up (non-volatile counter)	
219 (0xDB)	SICK Mio Number	Record	42 Byte	ro	SICK mio numbers of all devices (0000000 if device is not available): Receiver Host Receiver Guest 1 Receiver Guest 2 Sender Host Sender Guest 1 Sender Guest 2		
8817 (0x2271)	ConfStatusReceiver	Record	21 Byte	ro	Configuration Status Receiver		
8818 (0x2272)	ConfStatusSender	Record	7 Byte	ro	Configuration Status Sender		
8819 (0x2273)	SystemInfo	Record	20 Byte	ro	System Information		
8827 (0x227B)	SystemErrorDiag	Record	216 Byte	ro	Diagnosis Information for all devices in the system		
8830 (0x227E)	PfSectionBits	Record	2 Byte	ro	Protective Field Section Bits of the system		
8831 (0x227F)	SupplyVoltage	UInt	16 Bit	ro	0	Supply voltage in mV	
9090 (0x2382)	ErrorHistoryRH_00	Record	36 Byte	ro	Error History Element 0 Receiver Host		
9091 (0x2383)	ErrorHistoryRH_01	Record	36 Byte	ro	Error History Element 1 Receiver Host		
9092 (0x2384)	ErrorHistoryRH_02	Record	36 Byte	ro	Error History Element 2 Receiver Host		
9093 (0x2385)	ErrorHistoryRH_03	Record	36 Byte	ro	Error History Element 3 Receiver Host		
9094 (0x2386)	ErrorHistoryRH_04	Record	36 Byte	ro	Error History Element 4 Receiver Host		
9095 (0x2387)	ErrorHistoryRH_05	Record	36 Byte	ro	Error History Element 5 Receiver Host		
9096 (0x2388)	ErrorHistoryRH_06	Record	36 Byte	ro	Error History Element 6 Receiver Host		
9097 (0x2389)	ErrorHistoryRH_07	Record	36 Byte	ro	Error History Element 7 Receiver Host		
9098 (0x238A)	ErrorHistoryRH_08	Record	36 Byte	ro	Error History Element 8 Receiver Host		
9099 (0x238B)	ErrorHistoryRH_09	Record	36 Byte	ro	Error History Element 9 Receiver Host		
9145 (0x23B9)	DeviceIdentRH	Record	54 Byte	ro	Device Identification Receiver Host		
9180 (0x23DC)	SwOffEventRH_00	Record	36 Byte	ro	Switch-off Event 0 Receiver Host		
9181 (0x23DD)	SwOffEventRH_01	Record	36 Byte	ro	Switch-off Event 1 Receiver Host		

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SICK device specific

Index dec (hex)	Name	Format (Offset)	Length	Access[1]	Default Value	Value / Range	Remark [Unit]
9182 (0x23DE)	SwOffEventRH_02	Record	36 Byte	ro	Switch-off Event 2 Receiver Host		
9183 (0x23DF)	SwOffEventRH_03	Record	36 Byte	ro	Switch-off Event 3 Receiver Host		
9184 (0x23E0)	SwOffEventRH_04	Record	36 Byte	ro	Switch-off Event 4 Receiver Host		
9185 (0x23E1)	SwOffEventRH_05	Record	36 Byte	ro	Switch-off Event 5 Receiver Host		
9186 (0x23E2)	SwOffEventRH_06	Record	36 Byte	ro	Switch-off Event 6 Receiver Host		
9187 (0x23E3)	SwOffEventRH_07	Record	36 Byte	ro	Switch-off Event 7 Receiver Host		
9188 (0x23E4)	SwOffEventRH_08	Record	36 Byte	ro	Switch-off Event 8 Receiver Host		
9189 (0x23E5)	SwOffEventRH_09	Record	36 Byte	ro	Switch-off Event 9 Receiver Host		
9820 (0x265C)	DeviceDataRH	Record	10 Byte	ro	Device Data Receiver Host		
9822 (0x265E)	BeamStatusRH	Array	27 Byte	ro	Unsigned Integer8 [27]	1 Bit for each beam; True = Beam free, False = Beam interrupted (Bit0 in first element corresponds to beam1 which is far from system plug)	
9823 (0x265F)	WeakStatusRH	Array	27 Byte	ro	Unsigned Integer8 [27]	1 Bit for each beam; True = Weak signal, False = No weak signal (Bit0 in first element corresponds to beam1 which is far from system plug)	
9824 (0x2660)	BeamAlignmentRH	Array	56 Byte	ro	Unsigned Integer32 [14]	2 Bit alignment information for each beam; 0 = no signal, 1 = weak signal, 2 = strong signal, 3 = very strong signal (Bit0/1 in first element corresponds to beam1 which is far from system plug)	
9825 (0x2661)	AlignmentQualityRH	UInt	8 Bit	ro	0 = Alignment quality equivalent to 0 LEDs 1 = Alignment quality equivalent to 1 LED 2 = Alignment quality equivalent to 2 LEDs 3 = Alignment quality equivalent to 3 LEDs 4 = Alignment quality equivalent to 4 LEDs	Alignment quality equivalent to alignment display	
9826 (0x2662)	DeviceTimesRH	Record	16 Byte	ro	Device Times Receiver Host		
10090 (0x276A)	ErrorHistoryRG1_00	Record	36 Byte	ro	Error History Element 0 Receiver Guest1		
10091 (0x276B)	ErrorHistoryRG1_01	Record	36 Byte	ro	Error History Element 1 Receiver Guest1		
10092 (0x276C)	ErrorHistoryRG1_02	Record	36 Byte	ro	Error History Element 2 Receiver Guest1		
10093 (0x276D)	ErrorHistoryRG1_03	Record	36 Byte	ro	Error History Element 3 Receiver Guest1		
10094 (0x276E)	ErrorHistoryRG1_04	Record	36 Byte	ro	Error History Element 4 Receiver Guest1		
10095 (0x276F)	ErrorHistoryRG1_05	Record	36 Byte	ro	Error History Element 5 Receiver Guest1		
10096 (0x2770)	ErrorHistoryRG1_06	Record	36 Byte	ro	Error History Element 6 Receiver Guest1		
10097 (0x2771)	ErrorHistoryRG1_07	Record	36 Byte	ro	Error History Element 7 Receiver Guest1		
10098 (0x2772)	ErrorHistoryRG1_08	Record	36 Byte	ro	Error History Element 8 Receiver Guest1		
10099 (0x2773)	ErrorHistoryRG1_09	Record	36 Byte	ro	Error History Element 9 Receiver Guest1		
10145 (0x27A1)	DeviceIdentRG1	Record	54 Byte	ro	Device Identification Receiver Guest1		
10180 (0x27C4)	SwOffEventRG1_00	Record	36 Byte	ro	Switch-off Event 0 Receiver Guest1		
10181 (0x27C5)	SwOffEventRG1_01	Record	36 Byte	ro	Switch-off Event 1 Receiver Guest1		
10182 (0x27C6)	SwOffEventRG1_02	Record	36 Byte	ro	Switch-off Event 2 Receiver Guest1		
10183 (0x27C7)	SwOffEventRG1_03	Record	36 Byte	ro	Switch-off Event 3 Receiver Guest1		
10184 (0x27C8)	SwOffEventRG1_04	Record	36 Byte	ro	Switch-off Event 4 Receiver Guest1		
10185 (0x27C9)	SwOffEventRG1_05	Record	36 Byte	ro	Switch-off Event 5 Receiver Guest1		
10186 (0x27CA)	SwOffEventRG1_06	Record	36 Byte	ro	Switch-off Event 6 Receiver Guest1		
10187 (0x27CB)	SwOffEventRG1_07	Record	36 Byte	ro	Switch-off Event 7 Receiver Guest1		
10188 (0x27CC)	SwOffEventRG1_08	Record	36 Byte	ro	Switch-off Event 8 Receiver Guest1		
10189 (0x27CD)	SwOffEventRG1_09	Record	36 Byte	ro	Switch-off Event 9 Receiver Guest1		
10820 (0x2A44)	DeviceDataRG1	Record	10 Byte	ro	Device Data Receiver Guest1		
10822 (0x2A46)	BeamStatusRG1	Array	27 Byte	ro	Unsigned Integer8 [27]	1 Bit for each beam; True = Beam free, False = Beam interrupted (Bit0 in first element corresponds to beam1 which is far from system plug)	
10823 (0x2A47)	WeakStatusRG1	Array	27 Byte	ro	Unsigned Integer8 [27]	1 Bit for each beam; True = Weak signal, False = No weak signal (Bit0 in first element corresponds to beam1 which is far from system plug)	
10824 (0x2A48)	BeamAlignmentRG1	Array	56 Byte	ro	Unsigned Integer32 [14]	2 Bit alignment information for each beam; 0 = no signal, 1 = weak signal, 2 = strong signal, 3 = very strong signal (Bit0/1 in first element corresponds to beam1 which is far from system plug)	
10825 (0x2A49)	AlignmentQualityRG1	UInt	8 Bit	ro	0 = Alignment quality equivalent to 0 LEDs 1 = Alignment quality equivalent to 1 LED 2 = Alignment quality equivalent to 2 LEDs 3 = Alignment quality equivalent to 3 LEDs 4 = Alignment quality equivalent to 4 LEDs	Alignment quality equivalent to alignment display	
10826 (0x2A4A)	DeviceTimesRG1	Record	16 Byte	ro	Device Times Receiver Guest1		
11090 (0x2B52)	ErrorHistoryRG2_00	Record	36 Byte	ro	Error History Element 0 Receiver Guest2		
11091 (0x2B53)	ErrorHistoryRG2_01	Record	36 Byte	ro	Error History Element 1 Receiver Guest2		
11092 (0x2B54)	ErrorHistoryRG2_02	Record	36 Byte	ro	Error History Element 2 Receiver Guest2		
11093 (0x2B55)	ErrorHistoryRG2_03	Record	36 Byte	ro	Error History Element 3 Receiver Guest2		
11094 (0x2B56)	ErrorHistoryRG2_04	Record	36 Byte	ro	Error History Element 4 Receiver Guest2		
11095 (0x2B57)	ErrorHistoryRG2_05	Record	36 Byte	ro	Error History Element 5 Receiver Guest2		
11096 (0x2B58)	ErrorHistoryRG2_06	Record	36 Byte	ro	Error History Element 6 Receiver Guest2		
11097 (0x2B59)	ErrorHistoryRG2_07	Record	36 Byte	ro	Error History Element 7 Receiver Guest2		
11098 (0x2B5A)	ErrorHistoryRG2_08	Record	36 Byte	ro	Error History Element 8 Receiver Guest2		
11099 (0x2B5B)	ErrorHistoryRG2_09	Record	36 Byte	ro	Error History Element 9 Receiver Guest2		
11145 (0x2B89)	DeviceIdentRG2	Record	54 Byte	ro	Device Identification Receiver Guest2		
11180 (0x2BAC)	SwOffEventRG2_00	Record	36 Byte	ro	Switch-off Event 0 Receiver Guest2		
11181 (0x2BAD)	SwOffEventRG2_01	Record	36 Byte	ro	Switch-off Event 1 Receiver Guest2		
11182 (0x2BAE)	SwOffEventRG2_02	Record	36 Byte	ro	Switch-off Event 2 Receiver Guest2		
11183 (0x2BAF)	SwOffEventRG2_03	Record	36 Byte	ro	Switch-off Event 3 Receiver Guest2		

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

BZ.mk3

IO-Link

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]
11184 (0x2BB0)	SwOffEventRG2_04	Record	36 Byte	ro	Switch-off Event 4 Receiver Guest2		
11185 (0x2BB1)	SwOffEventRG2_05	Record	36 Byte	ro	Switch-off Event 5 Receiver Guest2		
11186 (0x2BB2)	SwOffEventRG2_06	Record	36 Byte	ro	Switch-off Event 6 Receiver Guest2		
11187 (0x2BB3)	SwOffEventRG2_07	Record	36 Byte	ro	Switch-off Event 7 Receiver Guest2		
11188 (0x2BB4)	SwOffEventRG2_08	Record	36 Byte	ro	Switch-off Event 8 Receiver Guest2		
11189 (0x2BB5)	SwOffEventRG2_09	Record	36 Byte	ro	Switch-off Event 9 Receiver Guest2		
11820 (0x2E2C)	DeviceDataRG2	Record	10 Byte	ro	Device Data Receiver Guest2		
11822 (0x2E2E)	BeamStatusRG2	Array	27 Byte	ro	Unsigned Integer8 [27]	1 Bit for each beam; True = Beam free, False = Beam interrupted (Bit0 in first element corresponds to beam1 which is far from system plug)	
11823 (0x2E2F)	WeakStatusRG2	Array	27 Byte	ro	Unsigned Integer8 [27]	1 Bit for each beam; True = Weak signal, False = No weak signal (Bit0 in first element corresponds to beam1 which is far from system plug)	
11824 (0x2E30)	BeamAlignmentRG2	Array	56 Byte	ro	Unsigned Integer32 [14]	2 Bit alignment information for each beam; 0 = no signal, 1 = weak signal, 2 = strong signal, 3 = very strong signal (Bit0/1 in first element corresponds to beam1 which is far from system plug)	
11825 (0x2E31)	AlignmentQualityRG2	UInt	8 Bit	ro	0 = Alignment quality equivalent to 0 LEDs 1 = Alignment quality equivalent to 1 LED 2 = Alignment quality equivalent to 2 LEDs 3 = Alignment quality equivalent to 3 LEDs 4 = Alignment quality equivalent to 4 LEDs	Alignment quality equivalent to alignment display	
11826 (0x2E32)	DeviceTimesRG2	Record	16 Byte	ro	Device Times Receiver Guest2		
12090 (0x2F3A)	ErrorHistorySH_00	Record	36 Byte	ro	Error History Element 0 Sender Host		
12091 (0x2F3B)	ErrorHistorySH_01	Record	36 Byte	ro	Error History Element 1 Sender Host		
12092 (0x2F3C)	ErrorHistorySH_02	Record	36 Byte	ro	Error History Element 2 Sender Host		
12093 (0x2F3D)	ErrorHistorySH_03	Record	36 Byte	ro	Error History Element 3 Sender Host		
12094 (0x2F3E)	ErrorHistorySH_04	Record	36 Byte	ro	Error History Element 4 Sender Host		
12095 (0x2F3F)	ErrorHistorySH_05	Record	36 Byte	ro	Error History Element 5 Sender Host		
12096 (0x2F40)	ErrorHistorySH_06	Record	36 Byte	ro	Error History Element 6 Sender Host		
12097 (0x2F41)	ErrorHistorySH_07	Record	36 Byte	ro	Error History Element 7 Sender Host		
12098 (0x2F42)	ErrorHistorySH_08	Record	36 Byte	ro	Error History Element 8 Sender Host		
12099 (0x2F43)	ErrorHistorySH_09	Record	36 Byte	ro	Error History Element 9 Sender Host		
12145 (0x2F71)	DeviceIdentSH	Record	54 Byte	ro	Device Identification Sender Host		
12820 (0x3214)	DeviceDataSH	Record	10 Byte	ro	Device Data Sender Host		
12826 (0x321A)	DeviceTimesSH	Record	16 Byte	ro	Device Times Sender Host		
13090 (0x3322)	ErrorHistorySG1_00	Record	36 Byte	ro	Error History Element 0 Sender Guest1		
13091 (0x3323)	ErrorHistorySG1_01	Record	36 Byte	ro	Error History Element 1 Sender Guest1		
13092 (0x3324)	ErrorHistorySG1_02	Record	36 Byte	ro	Error History Element 2 Sender Guest1		
13093 (0x3325)	ErrorHistorySG1_03	Record	36 Byte	ro	Error History Element 3 Sender Guest1		
13094 (0x3326)	ErrorHistorySG1_04	Record	36 Byte	ro	Error History Element 4 Sender Guest1		
13095 (0x3327)	ErrorHistorySG1_05	Record	36 Byte	ro	Error History Element 5 Sender Guest1		
13096 (0x3328)	ErrorHistorySG1_06	Record	36 Byte	ro	Error History Element 6 Sender Guest1		
13097 (0x3329)	ErrorHistorySG1_07	Record	36 Byte	ro	Error History Element 7 Sender Guest1		
13098 (0x332A)	ErrorHistorySG1_08	Record	36 Byte	ro	Error History Element 8 Sender Guest1		
13099 (0x332B)	ErrorHistorySG1_09	Record	36 Byte	ro	Error History Element 9 Sender Guest1		
13145 (0x3359)	DeviceIdentSG1	Record	54 Byte	ro	Device Identification Sender Guest1		
13820 (0x35FC)	DeviceDataSG1	Record	10 Byte	ro	Device Data Sender Guest1		
13826 (0x3602)	DeviceTimesSG1	Record	16 Byte	ro	Device Times Sender Guest1		
14090 (0x370A)	ErrorHistorySG2_00	Record	36 Byte	ro	Error History Element 0 Sender Guest2		
14091 (0x370B)	ErrorHistorySG2_01	Record	36 Byte	ro	Error History Element 1 Sender Guest2		
14092 (0x370C)	ErrorHistorySG2_02	Record	36 Byte	ro	Error History Element 2 Sender Guest2		
14093 (0x370D)	ErrorHistorySG2_03	Record	36 Byte	ro	Error History Element 3 Sender Guest2		
14094 (0x370E)	ErrorHistorySG2_04	Record	36 Byte	ro	Error History Element 4 Sender Guest2		
14095 (0x370F)	ErrorHistorySG2_05	Record	36 Byte	ro	Error History Element 5 Sender Guest2		
14096 (0x3710)	ErrorHistorySG2_06	Record	36 Byte	ro	Error History Element 6 Sender Guest2		
14097 (0x3711)	ErrorHistorySG2_07	Record	36 Byte	ro	Error History Element 7 Sender Guest2		
14098 (0x3712)	ErrorHistorySG2_08	Record	36 Byte	ro	Error History Element 8 Sender Guest2		
14099 (0x3713)	ErrorHistorySG2_09	Record	36 Byte	ro	Error History Element 9 Sender Guest2		
14145 (0x3741)	DeviceIdentSG2	Record	54 Byte	ro	Device Identification Sender Guest2		
14820 (0x39E4)	DeviceDataSG2	Record	10 Byte	ro	Device Data Sender Guest2		
14826 (0x39EA)	DeviceTimesSG2	Record	16 Byte	ro	Device Times Sender Guest2		

Standard command

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

[1] ro = read only, wo = write only, rw = read/write
[2] COM values specify the bitrate (see IO-Link specification): COM1 (4,8 kbit/s), COM2 (38,4 kbit/s), COM3 (230,4 kbit/s)