

SEFB62x_Basic

Multi-Beam Safety Light Array



Interface Protocol

IO-Link SEFB62x_Basic

Vendor ID

Product	hex	dec	hex (Bytes)	dec (Bytes)
wenglor sensoric GmbH	0x0057	87	00 57	0 87

Device ID

Product	hex	dec	hex (Bytes)	dec (Bytes)
SEFB622	0x310300	3212032	31 03 00	49 3 0
SEFB623	0x311300	3216128	31 13 00	49 19 0
SEFB624	0x312300	3220224	31 23 00	49 35 0

hex*	dec*	hex (Bytes)*	dec (Bytes)*
0x310301	3212033	31 03 01	49 3 1
0x311301	3216129	31 13 01	49 19 1
0x312301	3220225	31 23 01	49 35 1

* Valid for devices delivered from 10/2020 onward

IO-Link Version:	V1.1
Data Storage:	No
Blockparameter:	No
MinCycletime:	4,5 ms
SIO-Mode:	Yes
COM-Mode:	COM2
ISDU:	Yes
Process data In (Device to Master):	8 Bytes
Process data Out (Master to Device):	—

Process DataA (Length: 8 Byte)

Name	Byte	Length	Range	Unit
Output State	0	1 Byte	0...255: Bit0: OSSD-State Bit1: Acknowledgment prompt Bit2: Safety Field Penetration Bit3: Muting Activ Bit4: Override Activ Bit5: Weak Signal / Contamination Bit6: Ready Bit7: Synchronous Run	—
Input State	1	1 Byte	0...63: Bit0: Input1 Bit1: Input2 Bit2: Input3 Bit3: Input4 Bit4: Input5 Bit5: Input6	—
LBB (Last Beam Blocked)	2	1 Byte	0...1/2/3/4/255	—
FBB (First Beam Blocked)	3	1 Byte	0...1/2/3/4/255	—
NBB (Number of Beam Blocked)	4	1 Byte	0...1/2/3/255	—
NCBB (Number of Cumulated Beams Blocked)	5	1 Byte	0...1/2/3/255	—
NOBJ (Number of Objects)	6	1 Byte	0...1/2/255	—
Device State	7	1 Byte	0...255: 0: normal Operation 1: parametrization Push Button (directly on the sensors) 2: parametrization IO-Link ≥ 10: Error Number	—

Parameter

Name	Index (hex)	Index (dec)	Sub-index	R/W	Length	Data Storage	Dyna-mic	Modify others	Default Value	Range
Identification										
Vendor Name	0x0010	16	0	RO	String				wenglor sensoric GmbH	
Vendor Text	0x0011	17	0	RO	String				the innovative family	
Product Name	0x0012	18	0	RO	String				SEFB62x	
Product ID	0x0013	19	0	RO	String				SEFB62x	
Product Text	0x0014	20	0	RO	String				Multi-Beam Safety Light Array	
Serial Number	0x0015	21	0	RO	String				—	
SAP Number	0x0042	66	0	RO	String [10]				—	0...
System Revision	0x0043	67	0	RO	String [2]				—	A...
Hardware Revision	0x0016	22	0	RO	String				—	
Firmware Revision	0x0017	23	0	RO	String				—	
Application Specific Name	0x0018	24	0	RW	String [32]				***	
Parameter										
Device Settings										
System Command	0x0002	2	0	WO	UInt8			X	—	Factory Reset = 0x82 (130)
Device Access Locks	0x000C	12	0	RW	UInt16				0x0000	„0...1: Bit 0: Parameter write access Locked
Parameterization Code *	0x0050	80	0	RO	String[4]				AAAA	AAAA...ZZZZ
Password Entry	0x0040	64	0	WO	UInt16				0	0...9999
Parameterization End	0x0041	65	0	RW	UInt8				0	0...2: 0: No 1: Save + Restart 2: Cancel + Restart

* This parameter set is available only for devices delivered from 10/2020 onward.

Name	Index (hex)	Index (dec)	Sub-index	R/W	Length	Data Storage	Dyna-mic	Modify others	Default Value	Range
Password Change	0x0100	256	0	RW	Uin16				0...9999	0...9999
Identification	0x0101	257	0	RO	Uin16				3	0...65535
Basic Settings										
Code (Beam Coding)	0x0103	259	0	RW	Unit8				0	0: Off 1: On
RES (Restart Inhibit)	0x0104	260	0	RW	Unit8				0	0: Off 1: On
EDM (Contactor Monitoring)	0x0105	261	0	RW	Unit8				0	0: Off 1: On
Expert Settings										
Signal Output	0x0131	305	0	RW	Unit8				1	0: Off 1: Restart 2: OSSD 4: Contamination 5: Synchron 6: Ready
Alignment Signal	0x0133	307	0	RO	Unit8				0	0: not detecting any emitter beams 1: Signal is weak 2: Signal is adequate 3: Signal is good 4: Signal is very good
Reset	0x0134	308	0	RW	Unit8				0	0: Off 1: Reset (Factory Settings)
Beam Settings										
Actual	0x0141	321	0	RO	Unit8 [1]				0	Bit-State: Bit=0: Beam not detected Bit=1: Beam detected Byte-State: Byte 0: Bit 0: Beam1 Byte 0: Bit 1: Beam2 Byte 0: Bit 2: Beam3 etc.
Beam Numbers	0x0142	322	0	RO	Unit8				2...4	2...4