

## IO-Link-Configuration

### Series E22 AIOL / E30 AIOL

Equipment characteristics:	
SIO mode:	no
Min. cycle time:	10 ms
Baudrate:	38.4 kBaud (COM2)
Process data:	16 Bit (Frametyp 2.2)

Process data:	
Width:	16 Bit
Orientation:	right
Access:	only read
Data type:	UINT16

Service data:				
Index (hex)	Meaning	Access	Pre-adjustment	Remark
0x10	Manufacturer name	ro	BERNSTEIN AG	fixed length: 13 characters
0x11	Manufacturer text	ro	www.bernstein.eu	fixed length: 17 characters
0x12	Name of product family	ro	AIOL	fixed length: 4 characters
0x13	Article number	ro	depending on type: 6370081191 6370081192 6370099193 6370081194 6370081195 6370099196	fixed length: 11 characters
0x14	Product description	ro	IO-Link-sensor for magnetic fields	
0x15	Serial number	ro	no	currently not used
0x16	Hardware revision	ro	HW-V1.0	fixed length: 8 characters
0x17	Firmware revision	ro	FW-V1.7	fixed length: 8 characters
0x18	App. specific string	rw	*****	length restriction: 16 - 32 characters
0x40	Internal temperature	ro	no	Indication in °C
0x41	Reply sensor	ro	[0] no	s. table responses
0x42	Command to sensor	wo	[0] no command	s. table command
0x43	Process data	ro	no	Copy of the process data
0x44	Scale	rw	1000	Scaling the process data [100..10000]
0x45	Status H1	ro	no	Status value Hall 1
0x46	Status H2	ro	no	Status value Hall 2

Events:			
Code (hex)	Type	Meaning	Remark
0x8CA0	Warning	Temperature range violation	Temperature determination 0.2 Hz Temperature limits -20 °C ... 80 °C Values correspond to internal temperature
0x8CA1	Warning	Temperature change violation	Permitted change < 50 °C / 5 s
0x8CA2	Warning	Magnetic error	Higher / lower than the teached maximum / minimum

**Command (Index 0x42):**

Value	Name	Meaning	Note
0	No_command	No action	Non-operating of the command processing
1	Start_teach	Start the teach	LED flashes with 1 Hz
2	Parameter_save	Save the current parameter set	LED flashes for 1 s with 5 Hz
3	Break-off	Break-off the current process	

**Answer (Index 0x41):**

Value	Name	Meaning	Note
0	No_value	No	Initial state LED flashes with 1 Hz (duty factor 10 %)
1	Teach_started	Teach process was started	LED flashes with 1 Hz
2	Teach_finished	Teach process completed successfully	LED flashes for 1 s with 5 Hz
3	Save_finished	Parameter set has been saved	LED flashes for 1 s with 5 Hz
4	Broken off	Current process has been canceled	LED flashes with 1 Hz (duty factor 10 %)
5	Teach error	Teach process incorrect	LED flashes permanently with 5 Hz Current state must be acknowledged by command abort
6	Not_permmissible	Command is not allowed in the current state	

**Phase diagram COMMAND**
