IO-Link

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SIO-Mode	Yes
Frame-Typ	2.5
Baudrate	38,4 kBd
Minimum cycle time	3,0 ms
Processdata input	1 byte
Processdata output	1 byte

Process Data

	Parameter	Bit		Access		Remark
Input Data Byte	Part present (H2)	0		ro		Vacuum is over H2 & not yet under H2-h2
	Air saving function (H1)	1		ro		Vacuum is over H1 & not yet under H1-h1
	-	2		ro		Not used
	Status LED - green	3		ro		Status LED green on
	Status LED - red	4		ro		Status LED red on
	-	5		ro		Not used
	Condition Monitoring Event	6		ro		Details see Index 0x0092
	Error Event	7		ro		Error; code see Index 0x0082
Output Data Byte	Vacuum On	0		wo		Vacuum on/off
	Blow Off	1		wo		Blow off on/off
	-	2		wo		Not used
	-	3		wo		Not used
	-	4		wo		Not used
	-	5		wo		Not used
	-	6		wo		Not used
	-	7		wo		Not used

Parameter

SPDU Index dec	SPDU Index hex		Parameter	Data width	Value range	Access	Default value	Remark
			Identification					
7	0x07		Vendor ID	2 bytes		ro	0x00	0x00EA = 234 = J. Schmalz GmbH
8	0x08						0xEA	
9	0x09		Device ID	3 bytes		ro	0x01	Internal code number
10	0x0A						0x87	
11	0x0B						0x86	
16	0x0010		Vendor name	15 bytes		ro	J. Schmalz GmbH	Manufacturer designation
17	0x0011		Vendor text	15 bytes		ro	www.schmalz.com	Internet address
18	0x0012		Product name	32 bytes		ro	SCPi_SMPi	General product name
19	0x0013		Product ID	17 bytes		ro	10.02.02.00000/00	Order-Nr.
20	0x0014		Product text	30 bytes		ro	SCPi 00 IMP	Order-Code
21	0x0015		Serial number	9 bytes		ro	000000002	Serial number
22	0x0016		Hardware revision	3 bytes		ro		Hardware revison
23	0x0017		Firmware revision	3 bytes		ro		firmware revision
			Online					
64	0x0040		System vacuum	2 bytes	0 - 999	ro	0	Unit: mbar
			Initial Setup					
68	0x0044	ctr	Air saving function	1 byte	0 - 1	rw	1	0 = not active (off) 1 = active (on) [only available in version ...RD]
69	0x0045	bLo	Blow-off mode	1 byte	0 - 1	rw	0	0 = Externally controlled blow-off (-E-) 1 = Internally controlled blow-off – time-dependent (I-t)
71	0x0047	out	Output function	1 byte	0 - 1	rw	0	0 = NO 1 = NC
73	0x0049	tyP	Signal type	1 byte	0 - 1	rw	0 / 1	0 = PNP 1 = NPN
74	0x004A	uni	Vacuum display unit	1 byte	0 - 2	rw	0	0 = mbar 1 = kPa 2 = inHg
77	0x004D	Pin	PIN code	2 bytes	0 - 999	rw	0	0 = unlocked >0 = locked
78	0x004E	dCS	disable continuous sucking	1 byte	0 - 1	rw	0	0 = NO 1 = YES
79	0x004F	dPY	Display rotate	1 byte	0 - 1	rw	0	0 = not rotated 1 = rotated
			Production Setup					
100	0x0064	H-1	Setpoint H1	2 bytes	H1 =< 998 & H1 > (H2+h1)	rw	750	Unit: mbar
101	0x0065	h-1	Hysteresis h1	2 bytes	h1 < (H1-H2) & h1 >= 10	rw	150	Unit: mbar
102	0x0066	H-2	Setpoint H2	2 bytes	H2 < (H1-h1) & H2 > h2+2	rw	550	Unit: mbar
103	0x0067	h-2	Hysteresis h2	2 bytes	h2 < H2-2 & h2 >= 10	rw	10	Unit: mbar
106	0x006A	tbL	Duration automatic blow	2 bytes	10 - 999	rw	20	Unit: 1 ms x 10
			Calibration					
120	0x0078	UAC	Vacuum sensor offset Cal	1 byte	0 - 1	wo	0	0 = Nothing 1 = Zero offset; After calibrating 0
123	0x007B	rES	Factory defaults	1 byte	0 - 1	wo	0	0 = Nothing 1 = Restore; After restoring 0
			Diagnose					
			Error					
130	0x0082	Exx	Error-Code	1 byte	0-255	ro	0	1-99 = Error-code 100-199 = Internal error code
			Counter					
140	0x008C	cc1	Vacuum-on counter	4 bytes	0 - 999 mio	ro	0	Not erasable
141	0x008D	cc2	Valve operating counter	4 bytes	0 - 999 mio	ro	0	Not erasable
			Condition Monitoring [CM]					
146	0x0092		Condition monitoring	1 byte	0 - 255	ro	0	0 = no warning 1 = Valve protection aktiv 8 = H1 in gripping cycle