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IO-Link

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IO-Link Implementation

Vendor ID	234 (0xEA)
Device ID	100150 (0x018736)
SiO-Mode	no
IO-Link Revision	1.1
IO-Link Bitrate	38.4 kBit/sec (COM2)
Minimum Cycle Time	2.2 ms
Process Data Input	0 byte
Process Data Output	2 bytes

Process Data

Process data Out	Bits	Access	Remark
PD out byte 0	Valve 1	0	wo
	Valve 2	1	wo
	Valve 3	2	wo
	Valve 4	3	wo
	Valve 5	4	wo
	Valve 6	5	wo
	Valve 7	6	wo
	Valve 8	7	wo
PD out byte 1	Valve 9	0	wo
	Valve 10	1	wo
	Valve 11	2	wo
	Valve 12	3	wo
	reserved	4...7	wo
			0 = Valve inactive 1 = Valve active
			reserved

ISDU Parameters

ISDU Index dec	hex	Subindex dec	Parameter	Size	Value Range	Access	Default Value	Remark
Identification								
Device Management								
16	0x0010	0	Vendor name	0...32 bytes	-	ro	J. Schmalz GmbH	Manufacturer designation
17	0x0011	0	Vendor text	0...32 bytes	-	ro	Innovative Vacuum Solutions	Vendor text
18	0x0012	0	Product name	0...32 bytes	-	ro	-	Product name
19	0x0013	0	Product ID	0...32 bytes	-	ro	-	Product variant name, z.B.: FMG
20	0x0014	0	Product text	0...32 bytes	-	ro	-	Order-code, z.B.: FMG
21	0x0015	0	Serial number	9 bytes	-	ro	-	Serial number, z.B.: 999000101
22	0x0016	0	Hardware revision	2 bytes	-	ro	-	Hardware revision, z.B.: 00
23	0x0017	0	Firmware revision	4 bytes	-	ro	-	Firmware revision, z.B.: 1.12
240	0x00F0	0	Unique device identification	9 bytes	-	ro	-	Unique ID, z.B.: 00EA 0187D7 3B8B8825
250	0x00FA	0	Article number	14 bytes	-	ro	-	Order-number, z.B.: 10.03.01.00500
252	0x00FC	0	Production date	3 bytes	-	ro	-	Date code of production (month and year, month is letter coded, z.B.: 119)
Device Localization								
24	0x0018	0	Application specific tag	1...32 bytes	-	rw	***	User string to store location or tooling information
25	0x0019	0	Function tag	1...32 bytes	-	rw	***	User string to store location or tooling information
26	0x001A	0	Location tag	1...32 bytes	-	rw	***	User string to store location or tooling information
242	0x00F2	0	Equipment identification	1...64 bytes	-	rw	***	User string to store identification name from schematic
246	0x00F6	0	Geolocation	1...64 bytes	-	rw	***	User string to store geolocation from handheld device
249	0x00F9	0	Storage location	1...32 bytes	-	rw	***	User string to store storage location
253	0x00FD	0	Installation date	1...16 bytes	-	rw	***	User string to store date of installation
Device Settings								
Commands								
2	0x0002	0	System command	1 byte	5, 129, 131	wo	-	0x05 (dec 5): Force upload of parameter data into the master 0x81 (dec 129): Reset application 0x83 (dec 131): Back to box
Counter								
141	0x008D	1...12	Valve operating counter	4x12 bytes	-	ro	-	Counter for valve operating (non-erasable) Saved every 200 counts Subindex corresponds to valve number

Coding of IO-Link Events

Extended Device Status ID (= IO-Link Event Code)		Extended Device Status Type		IO-Link	Event name	Remark
dec	hex	hex	Meaning	Event Type		