

OY1P303P0102

High-Performance Distance Sensor



Interface Description

IO-Link OY1P303P0102

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)
OY1P303P0102	0x130902	1247490	13 09 02	19 9 2

IO-Link Version:	V 1.1
Data Storage:	Yes
Blockparameter	Yes
Min Cycle Time:	2,3 ms
SIO-Mode	Yes
COM-Mode	COM2

Processdata (Length: 16 Bit)

Subindex	Name	Bit Offset	Length	Range
1	A1 Output	0	1 Bit	0 = Off 1 = On
2	A2 Output	1	1 Bit	0 = Off 1 = On
3	Contamination Output	2	1 Bit	0 = Off 1 = On
4	Error Output	3	1 Bit	0 = Off 1 = On
5	Measured Value	4...15	12 Bit	50...3050 mm

Octet 0

Subindex	5							
Bit Offset	15	14	13	12	11	10	9	8

Octet 1

Subindex	5				4	3	2	1
Bit Offset	7	6	5	4	3	2	1	0

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	R	String				wenglor sensoric GmbH	
Vendor Text	0x0011	17	0	R	String				the innovative family	
Product Name	0x0012	18	0	R	String				OY1P303P0102	
Product ID	0x0013	19	0	R	String				OY1P303P0102	
Product Text	0x0014	20	0	R	String				High-Performance Distance Sensor	
Serial Number	0x0015	21	0	R	String					
Hardware Revision	0x0016	22	0	R	String					
Firmware Revision	0x0017	23	0	R	String					
Application Specific Name	0x0018	24	0	R/W	String 32 Byte	X			***	

Parameter										
Device Settings										
System Command	0x0002	2	0	W	Uint8			X		Factory Reset = 0x82 (128)
Device Access Locks	0x000C	12	0	R/W	Uint16	X			0	0...0x000F: Bit 0: Parameter write access Locked Bit 1: Data Storage locked Bit 2: Local parameterization Locked Bit 3: Reserved
Display Rotate	0x00A0	160	0	R/W	Uint8	X	X		0	0 = Normal 1 = Rotate
Display Intensity	0x00A1	161	0	R/W	Uint8	X	X		4	0 = Min 1 = Normal 2 = Max 3 = Power save 4 = Screensaver
Display Modus	0x00A2	162	0	R/W	Uint8	X	X		0	0 = Switch 1 = Analog
Expert Menu	0x00B0	176	0	R/W	Uint8	X	X		1	0 = On 1 = Off
Language	0x00F0	240	0	R/W	Uint8	X	X		1	0 = Deutsch 1 = English 2 = Francais 3 = Espanol 4 = Italiano
Password Enable	0x0100	256	0	R/W	Uint8	X	X		0	0 = Off 1 = On
Password Change	0x0101	257	0	R/W	Uint16	X	X		0	0...9999
Mesasured Value Settings										
Filter	0x00D0	208	0	R/W	Uint8	X	X	X	2	0 = 1 1 = 2 2 = 5 3 = 10 4 = 20 5 = 50 6 = 100 7 = 200 8 = 500
Emitted Light	0x00E0	224	0	R/W	Uint8	X	X		0	0 = On 1 = Off
E/A1 Input/Output										
E/A1 Pin Function	0x0040	64	0	R/W	Uint8	X	X		0	0 = Switching Output 1 = Error Output 2 = Contamination Output 3 = Emitted Light disengageable 4 = Extern Teach A2
A1 Teach	0x0200	512	0	R/W	Uint8			X	0	0 = - 1 = Teach-In execute
A1 Teach Mode	0x0290	656	0	R/W	Uint8	X	X	X	0	0 = Foreground Teach-In 1 = Background Teach-In 2 = Window Teach-In
A1 Teach Distance	0x0240	576	0	R/W	Uint16	X	X	X	1000 mm	50...3050 mm (depends on other parameters)
A1 Switching Point (1 Low)	0x0270	624	0	R	Uint16		X		1016 mm	
A1 Switching Point (1 High)	0x0271	625	0	R	Uint16		X		1028 mm	
A1 Switching Point (2 Low)	0x0272	626	0	R	Uint16		X		0 mm	
A1 Switching Point (2 High)	0x0273	627	0	R	Uint16		X		0 mm	
Hysteresis min	0x0308	776	0	R	Uint16		X		12 mm	
A1 Hysteresis Additional	0x0230	560	0	R/W	Uint16	X	X	X	0 mm	0...1000 mm
A1 Hysteresis	0x0300	768	0	R	Uint16		X		12 mm	
A1 Window Size	0x0250	592	0	R/W	Uint16	X	X	X	50 mm	10...1000 mm
A1 On Delay	0x0050	80	0	R/W	Uint16	X	X		0 ms	0 = Off 10...10000 ms
A1 Off Delay	0x0060	96	0	R/W	Uint16	X	X		0 ms	0 = Off 10...10000 ms
A1 Impulse Length	0x0070	112	0	R/W	Uint16	X	X		0 ms	0 = Off 10...10000 ms

A1 NPN/PNP	0x0220	544	0	R/W	Uint8	X	X		0	0 = PNP 1 = NPN 2 = Pushpull
A1 NO/NC	0x0210	528	0	R/W	Uint8	X	X		0	0 = NO 1 = NC
Input Ub active/inactive	0x0260	608	0	R/W	Uint8	X	X		0	0 = Ub active 1 = Ub inactive
Extern Teach Mode	0x0261	609	0	R/W	Uint8	X	X		0	0 = Foreground Teach-In 1 = Background Teach-In 2 = Window Teach-In
E/A2 Input/Output										
E/A2 Pin Function	0x0041	65	0	R/W	Uint8	X	X		3	0 = Switching Output 1 = Error Output 2 = Contamination Output 3 = Analog Output 4 = Emitted Light disengageable 5 = Extern Teach A1
A2 Teach	0x0201	513	0	R/W	Uint8			X	0	0 = No Teach-In 1 = Teach-In
A2 Teach Mode	0x0291	657	0	R/W	Uint8	X	X	X	0	0 = Foreground Teach-In 1 = Background Teach-In 2 = Window Teach-In
A2 Teach Distance	0x0241	577	0	R/W	Uint16	X	X	X	1000 mm	50...3050 mm (depends on other parameters)
A2 Switching Point (1 Low)	0x0280	640	0	R	Uint16		X		1016 mm	
A2 Switching Point (1 High)	0x0281	641	0	R	Uint16		X		1028 mm	
A2 Switching Point (2 Low)	0x0282	642	0	R	Uint16		X		0 mm	
A2 Switching Point (2 High)	0x0283	643	0	R	Uint16		X		0 mm	
Hysteresis min	0x0308	776	0	R	Uint16		X		12 mm	
A2 Hysteresis Additional	0x0231	561	0	R/W	Uint16	X	X	X	0 mm	0...1000 mm
A2 Hysteresis	0x0301	769	0	R	Uint16		X		12 mm	
A2 Window Size	0x0251	593	0	R/W	Uint16	X	X	X	50 mm	10...1000 mm
A2 On Delay	0x0051	81	0	R/W	Uint16	X	X		0 ms	0 = Off 10...10000 ms
A2 Off Delay	0x0061	97	0	R/W	Uint16	X	X		0 ms	0 = Off 10...10000 ms
A2 Impulse Length	0x0071	113	0	R/W	Uint16	X	X		0 ms	0 = Off 10...10000 ms
A2 NPN/PNP	0x0221	545	0	R/W	Uint8	X	X		0	0 = PNP 1 = NPN 2 = Pushpull
A2 NO/NC	0x0211	529	0	R/W	Uint8	X	X		0	0 = NO 1 = NC
A2 Analog Mode U/I	0x0083	131	0	R/W	Uint8	X	X		1	0 = Voltage Output 1 = Current Output
A2 Analog Teach-In	0x0080	128	0	R/W	Uint8			X	0	0 = - 1 = 0 V/4 mA Teach-In 2 = 10 V/20 mA Teach-In
A2 Analog 0 V/4 mA	0x0081	129	0	R/W	Uint16	X	X		50 mm	50...3050 mm
A2 Analog High 10 V/20 mA	0x0082	130	0	R/W	Uint16	X	X		3050 mm	50...3050 mm
Input Ub active/inactive	0x0260	608	0	R/W	Uint8	X	X		0	0 = Ub active 1 = Ub inactive
Extern Teach Mode	0x0261	609	0	R/W	Uint8	X	X		0	0 = Foreground Teach-In 1 = Background Teach-In 2 = Window Teach-In
Device Test										
Test Mode	0x0310	784	0	R/W	Uint8			X	0	0 = Off 1 = On
A2 Test	0x0311	785	0	R/W	Uint8		X		0	0 = Off 1 = On
A2 Test Analog	0x0312	786	0	R/W	Uint16		X		0	0...10000 mV or 4000...20000 μ A
E2 Test	0x0313	787	0	R	Uint8		X		0	0 = Off 1 = On