

EN

P1PFxxx

Color Sensor



Interface Description

P1PFxxx

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)
P1PF001	0x000096	150	00 00 96	0 0 150

IO-Link Information

IO-Link Version:	V1.1.3
Data Storage:	Yes
Blockparameter:	Yes
Min Cycle time:	4 ms
SIO-Mode:	Yes
COM-Mode:	COM2
ISDU:	Yes
Process data In (Device to Master):	64 Bit
Process data Out (Master to Device):	8 Bit

IO-Link Profile

Common Profile
Function Class Identification
Function Class Diagnosis

Process data

Process Data Input (Device -> Master)

Subindex	Name	Bit Offset	Length	Range
1	Red/Hue Signal	48	16 Bit	0...1023 / 0...359
2	Green/Saturation Signal	32	16 Bit	0...1023
3	Blue/Lightness Signal	16	16 Bit	0...1023
4	Operating Mode	10	1 Bit	0 = RGB 1 = HSL
5	Error	9	1 Bit	0 = false 1 = true
6	Warning	8	1 Bit	0 = false 1 = true
7	SSC8 - Switching Signal 8	7	1 Bit	0 = false 1 = true
8	SSC7 - Switching Signal 7	6	1 Bit	0 = false 1 = true
9	SSC6 - Switching Signal 6	5	1 Bit	0 = false 1 = true
10	SSC5 - Switching Signal 5	4	1 Bit	0 = false 1 = true
11	SSC4 - Switching Signal 4	3	1 Bit	0 = false 1 = true
12	SSC3 - Switching Signal 3	2	1 Bit	0 = false 1 = true
13	SSC2 - Switching Signal 2	1	1 Bit	0 = false 1 = true
14	SSC1 - Switching Signal 1	0	1 Bit	0 = false 1 = true

	Octet 0 (MSB)								Octet 1 (LSB)								Octet 2 (MSB)								Octet 3 (LSB)									
Subindex	1																2																	
Bit Offset	63	62	61	60	59	58	57	56	55	54	53	52	51	50	49	48	47	46	45	44	43	42	41	40	39	38	37	36	35	34	33	32		
								Red Channel 0...1023																			Green Channel 0...1023							

	Octet 4								Octet 5 (LSB)							
Subindex	3															
Bit Offset	31	30	29	28	27	26	25	24	23	22	21	20	19	18	17	16
									Blue Channel 0...1023							

Process Data Output (Master -> Device)

Subindex	Name	Bit Offset	Length	Range
1	Emitted Light	0	1 Bit	false = Disabled true = Enabled
2	Find Me	1	1 Bit	0 = Off 1 = Blinking
3	Teach Input	2	1 Bit	false = Disabled true = Enabled
4	Selected Channel	3	1 Bit	0 = SSC1, 1 = SSC2, ... 7 = SSC8

Octet 0 (MSB)								
Subindex			4	3	2	1		
Bit Offset	7	6	5	4	3	2	1	0

Identification

Name	Index (hex)	Index (dec)	Sub-index	R/W	Data type	Data Storage	Dynamic	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				P1PF001	
Product ID	0x0013	19	0	R	String				P1PF001	
Product Text	0x0014	20	0	R	String				Color Sensor	
Serial Number	0x0015	21	0	R	String				-	
Hardware Version	0x0016	22	0	R	String				-	
Firmware Version	0x0017	23	0	R	String				-	
Application-specific Tag	0x0018	24	0	R/W	String 32 Byte	X			***	
Function Tag	0x0019	25	0	R/W	String 32 Byte	X			***	
Location Tag	0x001A	26	0	R/W	String 32 Byte	X			***	

Parameter

Impulse	Index (hex)	Index (dec)	Sub-index	R/W	Data type	Data Storage	Dynamic	Modify others	Default value	Range
Reset Functions										
System Command	0x0002	2	0	W	UInt8			X	–	Device Reset = 0x80 (128) Application Reset = 0x81 (129) Restore Factory Settings = 0x82 (130)
Device Settings										
Device Access Locks.Local Parameterization Lock	0x000C	12	3	R/W	Bool	X			false = unlocked	false = unlocked true = locked
Operating Mode	0x0402	1026	0	R/W	UInt8	X	X	X	0 = RGB	0 = RGB 1 = HSL
Bargraph Mode	0x0404	1028	0	R/W	UInt8	X		X	0 = Physical Output Indication	0 = Physical Output Indication 1 = Virtual Output Indication
Measurement Value Settings										
Emitted Light	0x00E0	224	0	R/W	UInt8	X			0 = On	0 = On 1 = Off
Noise Filter	0x00D0	208	0	R/W	UInt8	X			2 = Minimum	0 = Maximum 1 = Medium 2 = Minimum
Selected Light Intensity	0x0116	278	0	R/W	UInt8	X		X	1 = Medium	0 = High 1 = Medium 2 = Low 3 = Custom
Custom Power	0x0117	279	0	R/W	UInt8	X			50	1...100
Teach Status	0x01F0	496	0	R	UInt8		X		0 = Idle	0 = Idle 1 = Ongoing 2 = Last teach failed 3 = Last teach successful 4 = Last teach warning 7 = Last teach not possible: Emitter disabled 9 = Locked
Switching Signal Channel 1 - SSC1 (Operating Mode = RGB)										
Teach-In	0x0200	512	0	W	UInt8			X	0 = No Teach	1 = Do Teach SSC1
Hysteresis	0x0300	768	0	R/W	UInt8	X			1 = Medium	0 = Maximum 1 = Medium 2 = Minimum
Teach Signal.Red	0x0270	624	1	R/W	UInt16	X		X	500	0...1023
Teach Signal.Green	0x0270	624	2	R/W	UInt16	X		X	500	0...1023
Teach Signal.Blue	0x0270	624	3	R/W	UInt16	X		X	500	0...1023
Window Size High.Red	0x0600	1536	1	R/W	UInt8	X			50	2 ... 1023
Window Size High.Green	0x0600	1536	2	R/W	UInt8	X			50	2 ... 1023
Window Size High.Blue	0x0600	1536	3	R/W	UInt8	X			50	2 ... 1023
Window Size Low.Red	0x0610	1552	1	R/W	UInt8	X			50	2 ... 1023
Window Size Low.Green	0x0610	1552	2	R/W	UInt8	X			50	2 ... 1023
Window Size Low.Blue	0x0610	1552	3	R/W	UInt8	X			50	2 ... 1023
Switching Signal Channel 2 - SSC2 (Operating Mode = RGB)										
Teach-In	0x0200	512	0	W	UInt8			X	0 = No Teach	2 = Do Teach SSC2
Hysteresis	0x0301	769	0	R/W	UInt8	X			1 = Medium	0 = Maximum 1 = Medium 2 = Minimum
Teach Signal.Red	0x0271	625	1	R/W	UInt16	X		X		0...1023
Teach Signal.Green	0x0271	625	2	R/W	UInt16	X		X		0...1023
Teach Signal.Blue	0x0271	625	3	R/W	UInt16	X		X		0...1023
Window Size High.Red	0x0601	1537	1	R/W	UInt8	X			50	2 ... 1023
Window Size High.Green	0x0601	1537	2	R/W	UInt8	X			50	2 ... 1023
Window Size High.Blue	0x0601	1537	3	R/W	UInt8	X			50	2 ... 1023
Window Size Low.Red	0x0611	1553	1	R/W	UInt8	X			50	2 ... 1023
Window Size Low.Green	0x0611	1553	2	R/W	UInt8	X			50	2 ... 1023
Window Size Low.Blue	0x0611	1553	3	R/W	UInt8	X			50	2 ... 1023

Impulse	Index (hex)	Index (dec)	Sub-index	R/W	Data type	Data Storage	Dynamic	Modify others	Default value	Range
Switching Signal Channel 3 - SSC3 (Operating Mode = RGB)										
Teach-In	0x0200	512	0	W	Uint8			X	0 = No Teach	3 = Do Teach SSC3
Hysteresis	0x0302	770	0	R/W	Uint8	X			1 = Medium	0 = Maximum 1 = Medium 2 = Minimum
Teach Signal.Red	0x0272	626	1	R/W	Uint16	X		X		0...1023
Teach Signal.Green	0x0272	626	2	R/W	Uint16	X		X		0...1023
Teach Signal.Blue	0x0272	626	3	R/W	Uint16	X		X		0...1023
Window Size High.Red	0x0602	1538	1	R/W	Uint8	X			50	2 ... 1023
Window Size High.Green	0x0602	1538	2	R/W	Uint8	X			50	2 ... 1023
Window Size High.Blue	0x0602	1538	3	R/W	Uint8	X			50	2 ... 1023
Window Size Low.Red	0x0612	1554	1	R/W	Uint8	X			50	2 ... 1023
Window Size Low.Green	0x0612	1554	2	R/W	Uint8	X			50	2 ... 1023
Window Size Low.Blue	0x0612	1554	3	R/W	Uint8	X			50	2 ... 1023
Switching Signal Channel 4 - SSC4 (Operating Mode = RGB)										
Teach-In	0x0200	512	0	W	Uint8			X	0 = No Teach	4 = Do Teach SSC4
Hysteresis	0x0303	771	0	R/W	Uint8	X			1 = Medium	0 = Maximum 1 = Medium 2 = Minimum
Teach Signal.Red	0x0273	627	1	R/W	Uint16	X		X		0...1023
Teach Signal.Green	0x0273	627	2	R/W	Uint16	X		X		0...1023
Teach Signal.Blue	0x0273	627	3	R/W	Uint16	X		X		0...1023
Window Size High.Red	0x0603	1539	1	R/W	Uint8	X			50	2 ... 1023
Window Size High.Green	0x0603	1539	2	R/W	Uint8	X			50	2 ... 1023
Window Size High.Blue	0x0603	1539	3	R/W	Uint8	X			50	2 ... 1023
Window Size Low.Red	0x0613	1555	1	R/W	Uint8	X			50	2 ... 1023
Window Size Low.Green	0x0613	1555	2	R/W	Uint8	X			50	2 ... 1023
Window Size Low.Blue	0x0613	1555	3	R/W	Uint8	X			50	2 ... 1023
Switching Signal Channel 5 - SSC5 (Operating Mode = RGB)										
Teach-In	0x0200	512	0	W	Uint8			X	0 = No Teach	5 = Do Teach SSC5
Hysteresis	0x0304	772	0	R/W	Uint8	X			1 = Medium	0 = Maximum 1 = Medium 2 = Minimum
Teach Signal.Red	0x0274	628	1	R/W	Uint16	X		X		0...1023
Teach Signal.Green	0x0274	628	2	R/W	Uint16	X		X		0...1023
Teach Signal.Blue	0x0274	628	3	R/W	Uint16	X		X		0...1023
Window Size High.Red	0x0604	1540	1	R/W	Uint8	X			50	2 ... 1023
Window Size High.Green	0x0604	1540	2	R/W	Uint8	X			50	2 ... 1023
Window Size High.Blue	0x0604	1540	3	R/W	Uint8	X			50	2 ... 1023
Window Size Low.Red	0x0614	1556	1	R/W	Uint8	X			50	2 ... 1023
Window Size Low.Green	0x0614	1556	2	R/W	Uint8	X			50	2 ... 1023
Window Size Low.Blue	0x0614	1556	3	R/W	Uint8	X			50	2 ... 1023
Switching Signal Channel 6 - SSC6 (Operating Mode = RGB)										
Teach-In	0x0200	512	0	W	Uint8			X	0 = No Teach	6 = Do Teach SSC6
Hysteresis	0x0305	773	0	R/W	Uint8	X			1 = Medium	0 = Maximum 1 = Medium 2 = Minimum
Teach Signal.Red	0x0275	629	1	R/W	Uint16	X		X		0...1023
Teach Signal.Green	0x0275	629	2	R/W	Uint16	X		X		0...1023
Teach Signal.Blue	0x0275	629	3	R/W	Uint16	X		X		0...1023
Window Size High.Red	0x0605	1541	1	R/W	Uint8	X			50	2 ... 1023
Window Size High.Green	0x0605	1541	2	R/W	Uint8	X			50	2 ... 1023
Window Size High.Blue	0x0605	1541	3	R/W	Uint8	X			50	2 ... 1023
Window Size Low.Red	0x0615	1557	1	R/W	Uint8	X			50	2 ... 1023
Window Size Low.Green	0x0615	1557	2	R/W	Uint8	X			50	2 ... 1023
Window Size Low.Blue	0x0615	1557	3	R/W	Uint8	X			50	2 ... 1023

Impulse	Index (hex)	Index (dec)	Sub-index	R/W	Data type	Data Storage	Dynamic	Modify others	Default value	Range
Switching Signal Channel 7 - SSC7 (Operating Mode = RGB)										
Teach-In	0x0200	512	0	W	Uint8			X	0 = No Teach	7 = Do Teach SSC7
Hysteresis	0x0306	774	0	R/W	Uint8	X			1 = Medium	0 = Maximum 1 = Medium 2 = Minimum
Teach Signal.Red	0x0276	630	1	R/W	Uint16	X		X		0...1023
Teach Signal.Green	0x0276	630	2	R/W	Uint16	X		X		0...1023
Teach Signal.Blue	0x0276	630	3	R/W	Uint16	X		X		0...1023
Window Size High.Red	0x0606	1542	1	R/W	Uint8	X			50	2 ... 1023
Window Size High.Green	0x0606	1542	2	R/W	Uint8	X			50	2 ... 1023
Window Size High.Blue	0x0606	1542	3	R/W	Uint8	X			50	2 ... 1023
Window Size Low.Red	0x0616	1558	1	R/W	Uint8	X			50	2 ... 1023
Window Size Low.Green	0x0616	1558	2	R/W	Uint8	X			50	2 ... 1023
Window Size Low.Blue	0x0616	1558	3	R/W	Uint8	X			50	2 ... 1023
Switching Signal Channel 8 - SSC8 (Operating Mode = RGB)										
Teach-In	0x0200	512	0	W	Uint8			X	0 = No Teach	8 = Do Teach SSC8
Hysteresis	0x0307	775	0	R/W	Uint8	X			1 = Medium	0 = Maximum 1 = Medium 2 = Minimum
Teach Signal.Red	0x0277	631	1	R/W	Uint16	X		X		0...1023
Teach Signal.Green	0x0277	631	2	R/W	Uint16	X		X		0...1023
Teach Signal.Blue	0x0277	631	3	R/W	Uint16	X		X		0...1023
Window Size High.Red	0x0607	1543	1	R/W	Uint8	X			50	2 ... 1023
Window Size High.Green	0x0607	1543	2	R/W	Uint8	X			50	2 ... 1023
Window Size High.Blue	0x0607	1543	3	R/W	Uint8	X			50	2 ... 1023
Window Size Low.Red	0x0617	1559	1	R/W	Uint8	X			50	2 ... 1023
Window Size Low.Green	0x0617	1559	2	R/W	Uint8	X			50	2 ... 1023
Window Size Low.Blue	0x0617	1559	3	R/W	Uint8	X			50	2 ... 1023
Switching Signal Channel 1 - SSC1 (Operating Mode = HSL)										
Teach-In	0x0200	512	0	W	Uint8			X	0 = No Teach	1 = Do Teach SSC1
Hysteresis	0x0300	768	0	R/W	Uint8	X			1 = Medium	0 = Maximum 1 = Medium 2 = Minimum
Teach Signal.Hue	0x0280	640	1	R/W	Uint16	X		X	180	0 ... 359
Teach Signal.Saturation	0x0280	640	2	R/W	Uint16	X		X	500	0...1023
Teach Signal.Lightness	0x0280	640	3	R/W	Uint16	X		X	500	0...1023
Window Size High.Hue	0x0620	1568	1	R/W	Uint8	X			20	2 ... 360
Window Size High.Saturation	0x0620	1568	2	R/W	Uint8	X			50	2 ... 1023
Window Size High.Lightness	0x0620	1568	3	R/W	Uint8	X			50	2 ... 1023
Window Size Low.Hue	0x0630	1584	1	R/W	Uint8	X			20	2 ... 360
Window Size Low.Saturation	0x0630	1584	2	R/W	Uint8	X			50	2 ... 1023
Window Size Low.Lightness	0x0630	1584	3	R/W	Uint8	X			50	2 ... 1023
Switching Signal Channel 2 - SSC2 (Operating Mode = HSL)										
Teach-In	0x0200	512	0	W	Uint8			X	0 = No Teach	2 = Do Teach SSC2
Hysteresis	0x0301	769	0	R/W	Uint8	X			1 = Medium	0 = Maximum 1 = Medium 2 = Minimum
Teach Signal.Hue	0x0281	641	1	R/W	Uint16	X		X		0 ... 359
Teach Signal.Saturation	0x0281	641	2	R/W	Uint16	X		X		0...1023
Teach Signal.Lightness	0x0281	641	3	R/W	Uint16	X		X		0...1023
Window Size High.Hue	0x0621	1569	1	R/W	Uint8	X			20	2 ... 360
Window Size High.Saturation	0x0621	1569	2	R/W	Uint8	X			50	2 ... 1023
Window Size High.Lightness	0x0621	1569	3	R/W	Uint8	X			50	2 ... 1023
Window Size Low.Hue	0x0631	1585	1	R/W	Uint8	X			20	2 ... 360
Window Size Low.Saturation	0x0631	1585	2	R/W	Uint8	X			50	2 ... 1023
Window Size Low.Lightness	0x0631	1585	3	R/W	Uint8	X			50	2 ... 1023

Impulse	Index (hex)	Index (dec)	Sub-index	R/W	Data type	Data Storage	Dynamic	Modify others	Default value	Range
Switching Signal Channel 3 - SSC3 (Operating Mode = HSL)										
Teach-In	0x0200	512	0	W	Uint8			X	0 = No Teach	3 = Do Teach SSC3
Hysteresis	0x0302	770	0	R/W	Uint8	X			1 = Medium	0 = Maximum 1 = Medium 2 = Minimum
Teach Signal.Hue	0x0282	642	1	R/W	Uint16	X		X		0 ... 359
Teach Signal.Saturation	0x0282	642	2	R/W	Uint16	X		X		0...1023
Teach Signal.Lightness	0x0282	642	3	R/W	Uint16	X		X		0...1023
Window Size High.Hue	0x0622	1570	1	R/W	Uint8	X			20	2 ... 360
Window Size High.Saturation	0x0622	1570	2	R/W	Uint8	X			50	2 ... 1023
Window Size High.Lightness	0x0622	1570	3	R/W	Uint8	X			50	2 ... 1023
Window Size Low.Hue	0x0632	1586	1	R/W	Uint8	X			20	2 ... 360
Window Size Low.Saturation	0x0632	1586	2	R/W	Uint8	X			50	2 ... 1023
Window Size Low.Lightness	0x0632	1586	3	R/W	Uint8	X			50	2 ... 1023
Switching Signal Channel 4 - SSC4 (Operating Mode = HSL)										
Teach-In	0x0200	512	0	W	Uint8			X	0 = No Teach	4 = Do Teach SSC4
Hysteresis	0x0303	771	0	R/W	Uint8	X			1 = Medium	0 = Maximum 1 = Medium 2 = Minimum
Teach Signal.Hue	0x0283	643	1	R/W	Uint16	X		X		0 ... 359
Teach Signal.Saturation	0x0283	643	2	R/W	Uint16	X		X		0...1023
Teach Signal.Lightness	0x0283	643	3	R/W	Uint16	X		X		0...1023
Window Size High.Hue	0x0623	1571	1	R/W	Uint8	X			20	2 ... 360
Window Size High.Saturation	0x0623	1571	2	R/W	Uint8	X			50	2 ... 1023
Window Size High.Lightness	0x0623	1571	3	R/W	Uint8	X			50	2 ... 1023
Window Size Low.Hue	0x0633	1587	1	R/W	Uint8	X			20	2 ... 360
Window Size Low.Saturation	0x0633	1587	2	R/W	Uint8	X			50	2 ... 1023
Window Size Low.Lightness	0x0633	1587	3	R/W	Uint8	X			50	2 ... 1023
Switching Signal Channel 5 - SSC5 (Operating Mode = HSL)										
Teach-In	0x0200	512	0	W	Uint8			X	0 = No Teach	5 = Do Teach SSC5
Hysteresis	0x0304	772	0	R/W	Uint8	X			1 = Medium	0 = Maximum 1 = Medium 2 = Minimum
Teach Signal.Hue	0x0284	644	1	R/W	Uint16	X		X		0 ... 359
Teach Signal.Saturation	0x0284	644	2	R/W	Uint16	X		X		0...1023
Teach Signal.Lightness	0x0284	644	3	R/W	Uint16	X		X		0...1023
Window Size High.Hue	0x0624	1572	1	R/W	Uint8	X			20	2 ... 360
Window Size High.Saturation	0x0624	1572	2	R/W	Uint8	X			50	2 ... 1023
Window Size High.Lightness	0x0624	1572	3	R/W	Uint8	X			50	2 ... 1023
Window Size Low.Hue	0x0634	1588	1	R/W	Uint8	X			20	2 ... 360
Window Size Low.Saturation	0x0634	1588	2	R/W	Uint8	X			50	2 ... 1023
Window Size Low.Lightness	0x0634	1588	3	R/W	Uint8	X			50	2 ... 1023
Switching Signal Channel 6 - SSC6 (Operating Mode = HSL)										
Teach-In	0x0200	512	0	W	Uint8			X	0 = No Teach	6 = Do Teach SSC6
Hysteresis	0x0305	773	0	R/W	Uint8	X			1 = Medium	0 = Maximum 1 = Medium 2 = Minimum
Teach Signal.Hue	0x0285	645	1	R/W	Uint16	X		X		0...359
Teach Signal.Saturation	0x0285	645	2	R/W	Uint16	X		X		0...1023
Teach Signal.Lightness	0x0285	645	3	R/W	Uint16	X		X		0...1023
Window Size High.Hue	0x0625	1573	1	R/W	Uint8	X			20	2 ... 360
Window Size High.Saturation	0x0625	1573	2	R/W	Uint8	X			50	2 ... 1023
Window Size High.Lightness	0x0625	1573	3	R/W	Uint8	X			50	2 ... 1023
Window Size Low.Hue	0x0635	1589	1	R/W	Uint8	X			20	2 ... 360
Window Size Low.Saturation	0x0635	1589	2	R/W	Uint8	X			50	2 ... 1023
Window Size Low.Lightness	0x0635	1589	3	R/W	Uint8	X			50	2 ... 1023

Impulse	Index (hex)	Index (dec)	Sub-index	R/W	Data type	Data Storage	Dynamic	Modify others	Default value	Range
Switching Signal Channel 7 - SSC7 (Operating Mode = HSL)										
Teach-In	0x0200	512	0	W	Uint8			X	0 = No Teach	7 = Do Teach SSC7
Hysteresis	0x0306	774	0	R/W	Uint8	X			1 = Medium	0 = Maximum 1 = Medium 2 = Minimum
Teach Signal.Hue	0x0286	646	1	R/W	Uint16	X		X		0 ... 359
Teach Signal.Saturation	0x0286	646	2	R/W	Uint16	X		X		0...1023
Teach Signal.Lightness	0x0286	646	3	R/W	Uint16	X		X		0...1023
Window Size High.Hue	0x0626	1574	1	R/W	Uint8	X			20	2 ... 360
Window Size High.Saturation	0x0626	1574	2	R/W	Uint8	X			50	2 ... 1023
Window Size High.Lightness	0x0626	1574	3	R/W	Uint8	X			50	2 ... 1023
Window Size Low.Hue	0x0636	1590	1	R/W	Uint8	X			20	2 ... 360
Window Size Low.Saturation	0x0636	1590	2	R/W	Uint8	X			50	2 ... 1023
Window Size Low.Lightness	0x0636	1590	3	R/W	Uint8	X			50	2 ... 1023
Switching Signal Channel 8 - SSC8 (Operating Mode = HSL)										
Teach-In	0x0200	512	0	W	Uint8			X	0 = No Teach	8 = Do Teach SSC
Hysteresis	0x0307	775	0	R/W	Uint8	X			1 = Medium	0 = Maximum 1 = Medium 2 = Minimum
Teach Signal.Hue	0x0287	647	1	R/W	Uint16	X		X		0 ... 359
Teach Signal.Saturation	0x0287	647	2	R/W	Uint16	X		X		0...1023
Teach Signal.Lightness	0x0287	647	3	R/W	Uint16	X		X		0...1023
Window Size High.Hue	0x0627	1575	1	R/W	Uint8	X			20	2 ... 360
Window Size High.Saturation	0x0627	1575	2	R/W	Uint8	X			50	2 ... 1023
Window Size High.Lightness	0x0627	1575	3	R/W	Uint8	X			50	2 ... 1023
Window Size Low.Hue	0x0637	1591	1	R/W	Uint8	X			20	2 ... 360
Window Size Low.Saturation	0x0637	1591	2	R/W	Uint8	X			50	2 ... 1023
Window Size Low.Lightness	0x0637	1591	3	R/W	Uint8	X			50	2 ... 1023
Pin Function										
O1 Pin Function	0x0040	64	0	R/W	Uint8	X		X	0 = Switching Output SSC 1	0 = Switching Output SSC1 1 = Error Output 2 = Warning Output
O2 Pin Function	0x0041	65	0	R/W	Uint8	X		X	0 = Switching Output SSC 2	0 = Switching Output SSC2 1 = Error Output 2 = Warning Output 5 = Disabled 6 = Antivalent Output of SSC1
I3 Pin Function	0x0042	66	0	R/W	Uint8	X		X	4 = Teach Input	4 = Teach Input 5 = Disabled 7 = Trigger Input
Digital Outputs										
O1 Settings										
NO/NC	0x0210	528	0	R/W	Uint8	X			0 = NO	0 = NO 1 = NC
PNP/NPN	0x0220	544	0	R/W	Uint8	X			0 = PNP	0 = PNP 1 = NPN 2 = Push-Pull
ON Delay	0x0050	80	0	R/W	Uint16	X			0	0...10000 ms
OFF Delay	0x0060	96	0	R/W	Uint16	X			0	0...10000 ms
Impulse	0x0070	112	0	R/W	Uint16	X			0	0...10000 ms
O2 Settings										
NO/NC	0x0211	529	0	R/W	Uint8	X			0 = NO	0 = NO 1 = NC
PNP/NPN	0x0221	545	0	R/W	Uint8	X			0 = PNP	0 = PNP 1 = NPN 2 = Push-Pull
ON Delay	0x0051	81	0	R/W	Uint16	X			0	0 ... 10000 ms
OFF Delay	0x0061	97	0	R/W	Uint16	X			0	0 ... 10000 ms
Impulse	0x0071	113	0	R/W	Uint16	X			0	0 ... 10000 ms

Impulse	Index (hex)	Index (dec)	Sub-index	R/W	Data type	Data Storage	Dynamic	Modify others	Default value	Range
Digital Inputs (I3 Teach Input, Trigger Input)										
I3 Settings										
Ub Active/Inactive	0x0262	610	0	R/W	UInt8	X			0 = Ub Active	0 = Ub Active 1 = Ub Inactive

Diagnosis

Name	Index (hex)	Index (dec)	Sub-index	R/W	Data type	Data Storage	Dynamic	Modify others	Default value	Range
Device Status Information										
Device Status	0x0024	36	0	R	UInt8		X		0	0 = Device is OK 1 = Maintenance required 2 = Out of specification 3 = Functional check 4 = Failure
Detailed Device Status	0x0025	37	0	R	Array of StringT3		X		0	Shows the pending Events (maximum 4)
Additional Status										
Additional status Information	0x1300	4864	2	R	Bool		X		0	Emitted Light Off
			3							Fatal Error
			4							Temperature Error
			5							Temperature High
			6							Temperature Low
			7							Undervoltage
			8							Power Fault
			9							Short Circuit
Device Simulation										
Simulation Mode	0x0310	784	0	R/W	UInt8		X		0 = Off	0 = Off 1 = On
Simulation Parameter (Simulation Mode = 1)										
Signal Value (Red/Hue Signal, Green/Saturation Signal, Blue/Lightness Signal)	0x0315	789	0	R/W	Array of x3 UInt16		X		65535 = Use Process Value	0 ... 1023 = received signal value (0... 359 for Hue) 65535 = Use Process Value
Simulation SSC1 ... SSC8	0x0331	817	0	R/W	Array of 8x UInt8		X		255 = Use Process Value	0 = Off 1 = On 255 = Use process Value
Simulation Fatal Error	0x0323	803	0	R/W	UInt8		X		255 = Use Process Value	0 = Off 1 = On 255 = Use process Value
Simulation Temperature Error	0x0324	804	0	R/W	UInt8		X		255 = Use Process Value	0 = Off 1 = On 255 = Use process Value
Simulation Temperature High	0x0325	805	0	R/W	UInt8		X		255 = Use Process Value	0 = Off 1 = On 255 = Use process Value
Simulation Temperature Low	0x032C	812	0	R/W	UInt8		X		255 = Use Process Value	0 = Off 1 = On 255 = Use process Value
Simulation Undervoltage	0x0327	807	0	R/W	UInt8		X		255 = Use Process Value	0 = Off 1 = On 255 = Use process Value
Simulation Power Fault	0x0329	809	0	R/W	UInt8		X		255 = Use Process Value	0 = Off 1 = On 255 = Use process Value
Simulation Short Circuit	0x0328	808	0	R/W	UInt8		X		255 = Use Process Value	0 = Off 1 = On 255 = Use process Value

Name	Index (hex)	Index (dec)	Sub-index	R/W	Data type	Data Storage	Dynamic	Modify others	Default value	Range
Service Function										
System Command	0x0002	2	0	W	UInt8			X	-	Back-to-box = 0x83 (131)
Finde Me	0x1200	4608	0	R/W	UInt8		X		0 = Off	0 = Off 1 = Blinking

Events

Supported Events

Name	Event Code	Type	Specification
General malfunction – unknown error	0x1000	Error	IO-Link
Short circuit – Check installation	0x7710	Error	IO-Link
Device temperature over-run – Clear source of heat	0x4210	Warning	IO-Link
Device temperature under-run – Insulate device	0x4220	Warning	IO-Link
Temperature fault – Overload	0x4000	Error	IO-Link
Primary supply voltage under-run – Check tolerance	0x5111	Warning	IO-Link
Emitter light changed (on/off)	0x1811	Notification	wenglor specific