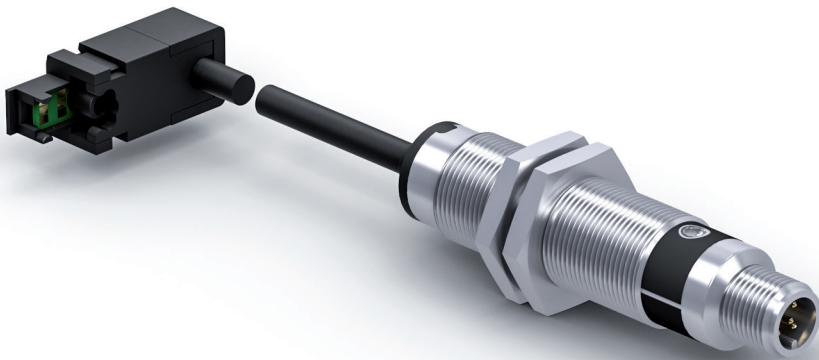


EN

ZPTG001

Connection Module



Interface Description

ZPTG001

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)
ZPTG001	0x3D1401	4002817	3D 14 01	61 20 1

IO-Link Information

IO-Link Version:	V1.1
Data Storage:	Yes
Blockparameter:	Yes
Min Cycle time:	4 ms
SIO-Mode:	Yes
COM-Mode:	COM3
ISDU:	Yes
Process data In (Device to Master):	144 Bit
Process data Out (Master to Device):	8 Bit

IO-Link Profiles

Common Profile
Function Class Identification
Function Class Diagnosis
Function Class Extended Identification
Smart Sensor Profil – Transducer Disable

Process Data

Process Data Input (Device -> Master)

Subindex	Name	Bit Offset	Length	Range
1	Single Beam Information	8	136 Bit	
2	Not used	4	4 Bit	
3	Error	3	1 Bit	0 = false 1 = true
4	Warning	2	1 Bit	0 = false 1 = true
5	SSC2 - Switching Signal 2	1	1 Bit	0 = false 1 = true
6	SSC1 - Switching Signal 1	0	1 Bit	0 = false 1 = true

Process Data Output (Master -> Device)

Subindex	Name	Bit Offset	Length	Range
1	Control Signal (LED Control)	0	1 Bit	0 = Enabled 1 = Disabled
2	Find Me	1	1 Bit	0 = Off 1 = Blinking
3	not used	2	6 Bit	

Parameter

Name	Index (hex)	Index (dec)	Sub-index	R/W	Datatype	Data Storage	Dynamic	Modify others	Default value	Range
Device Settings										
System Command	0x0002	2	0	W	UInt8			X	–	Device Reset = 0x80 (128) Restore Factory Settings = 0x82 (130)
Device Access Locks	0x000C	12	0	R/W	UInt16	X			0 = unlocked	0 = unlocked 1 = Data Storage Locked
Number of Beams	0x1020	4128	0	R	UInt8					
Number of Modules	0x1021	4129	0	R	UInt8					
Measurement Value Settings										
Sensitivity	0x0115	277	0	R/W	UInt8	X			100	0 ... 200
Hysteresis	0x0300	768	0	R/W	UInt8	X			1 = Medium	0 = Maximum 1 = Medium 2 = Low
Emitted Light	0x00E0	224	0	R/W	UInt8	X			0 = On	0 = On 1 = Off
Switching Signal Channel 1 - SSC1										
SSC1 Switch Point (Bit Mask)	0x0270	624	0	R/W	17 Byte Array	X				
Switching Signal Channel 2 - SSC2										
Height Measurement	0x0200	512	0	WO	UInt8			X		100 = Start SSC2 Height Measurement (copy current process bytes to SSC2 mask) 110 = Reset SSC2 Height Measurement (reset SSC2 mask to default value, ignoring all channels)
SSC2 Switch Point (Bit Mask)	0x0280	640	0	R/W	17 Byte Array	X				
Pin Function										
E/A1 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 5 = Disabled
E/A2 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
Digital Outputs										
A1 (SSC, Error or Warning Output)										
A1 NO/NC	0x0210	528	0	R/W	UInt8	X			0 = NO	0 = NO 1 = NC
A1 NPN/PNP/P-P	0x0220	544	0	R/W	UInt8	X			0 = PNP	0 = PNP 1 = NPN 2 = Push-Pull
A2 (SSC, Error or Warning Output)										
A2 NO/NC	0x0211	529	0	R/W	UInt8	X			0 = NO	0 = NO 1 = NC
A2 NPN/PNP/P-P	0x0221	545	0	R/W	UInt8	X			0 = PNP	0 = PNP 1 = NPN 2 = Push-Pull

Diagnosis

Name	Index (hex)	Index (dec)	Sub-index	R/W	Datatype	Data Storage	Dynamic	Modify others	Default value	Range
Status										
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)
Status Module 1	0x1320	4896	0	R	UInt8		X		0	Bitmask status: bit 0 = contamination bit 1 = short circuit bit 2 = communication Error
Status Module 2	0x1321	4897	0	R	UInt8		X		0	
Status Module 3	0x1322	4898	0	R	UInt8		X		0	
Status Module 4	0x1323	4899	0	R	UInt8		X		0	
Status Module 5	0x1324	4900	0	R	UInt8		X		0	
Status Module 6	0x1325	4901	0	R	UInt8		X		0	
Status Module 7	0x1326	4902	0	R	UInt8		X		0	
Status Module 8	0x1327	4903	0	R	UInt8		X		0	
Status Module 9	0x1328	4904	0	R	UInt8		X		0	
Status Module 10	0x1329	4905	0	R	UInt8		X		0	
Status Module 11	0x132A	4906	0	R	UInt8		X		0	
Status Module 12	0x132B	4907	0	R	UInt8		X		0	
Status Module 13	0x132C	4908	0	R	UInt8		X		0	
Status Module 14	0x132D	4909	0	R	UInt8		X		0	
Status Module 15	0x132E	4910	0	R	UInt8		X		0	
Additional Status										
Contamination Status	0x1330	4912	0	R	17 Byte Array		X		0	
Channel Short-Circuit Status	0x1331	4913	0	R	17 Byte Array		X		0	
LED Remote Control										
LED Remote Mode Enable	0x1332	4914	0	RW	bool				false	
LED Remote Mode State	0x1333	4915	0	RW	17 Byte Array				0	

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
Cleaning Required	0x8C40	Warning	IO-Link
Communication General Failure	0x1801	Error	wenglor specific
Communication Synchronization Failure	0x1802	Error	wenglor specific
Sensor Module Failure	0x1803	Error	wenglor specific