EN

P1PMxxx

Reflex Light Barrier

Teach-in



IO-Link

Interface Description

Subject to change without notice
Available as PDF version only
Version: 1.1.0
Status: 11.07.2024
www.wenglor.com

IO-Link P1PMxxx

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)
P1PM101	0x340F01	3411713	34 0F 01	52 15 1
P1PM102	0x340F02	3411714	34 0F 02	52 15 2
P1PM103	0x340F03	3411715	34 0F 03	52 15 3
P1PM104	0x340F04	3411716	34 0F 04	52 15 4

IO-Link Version:	V 1.1
Data Storage:	No
Blockparameter:	No
Min Cycle Time:	4,8 ms
SIO-Mode:	Yes
COM-Mode:	COM2
ISDU:	Yes
Process data In (Device to Master):	16 Bit
Process data Out (Master to Device):	—

Process data (Length: 24 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	Short-circuit	4	1 Bit	0 = Off 1 = On
4	Overtemperature	6	1 Bit	0 = Off 1 = On
5	Memory Busy	7	1 Bit	0 = Off 1 = On
6	D Channel State	8	1 Bit	0 = No detection 1 = Detection
7	F Channel State	9	1 Bit	0 = No detection 1 = Detection
8	N Channel State	10	1 Bit	0 = No detection 1 = Detection
9	Warning	15	1 Bit	0 = Off 1 = On

Octet 0

Subindex	9					8	7	6
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	Used bits	R/W	Data-type	Default value	Range
Identification								
Parameter.Serial number	0x0001	**1**	12…15		R	Uint32		
Direct Parameters 1. Vendor ID 1	0x0000	**0**	8		R	Uint8	0	
Direct Parameters 1. Vendor ID 2	0x0000	**0**	9		R	Uint8	87	
Direct Parameters 1. Device ID 1	0x0000	**0**	10		R	Uint8	-	
Direct Parameters 1. Device ID 2	0x0000	**0**	11		R	Uint8	-	
Direct Parameters 1. Device ID 3	0x0000	**0**	12		R	Uint8	-	
Parameter								
OFF Delay	0x0001	**1**	4	2…0	R/W	Uint3	0 = Off	0 = Off 1 = 2 ms 2 = 5 ms 3 = 10 ms 4 = 20 ms 5 = 50 ms 6 = 100 ms 7 = 200 ms
ON Delay	0x0001	**1**	4	5…3	R/W	Uint3	0 = Off	0 = Off 1 = 2 ms 2 = 5 ms 3 = 10 ms 4 = 20 ms 5 = 50 ms 6 = 100 ms 7 = 200 ms
Teach-In Start	0x0001	**1**	1	7	R/W	Bool	0 = No Action	0 = No Action 1 = Start Teach
Teach-In Stop	0x0001	**1**	1		R/W	Bool	0 = No Action	0 = No Action 1 = Stop Teach
Factory Reset	0x0001	**1**	1	5	R/W	Bool	0 = No Action	0 = No Action 1 = Restore Factory Settings
A2 Pin Function	0x0001	**1**	1	4..3	R/W	Uint2	1 = Extern Teach A1	0 = Antivalent Switching Output 1 = Extern Teach A1 2 = Contamination Output 3 = Error Output
Filter Type	0x0001	**1**	1	2	R/W	Bool	0 = Small	0 = Small 1 = Large
Teach Mode	0x0001	**1**	1	0	R/W	Bool	0 = Teach for static background: P1PM101, P1PM102 1 = Teach for moving background: P1PM103, P1PM104	0 = Teach for static background 1 = Teach for moving background
Emitted Light	0x0001	**1**	2	7	R/W	Bool	0 = On	0 = On 1 = Off
Hysteresis	0x0001	**1**	2	6	R/W	Bool	0 = Small	0 = Small 1 = Large
PNP/NPN	0x0001	**1**	2	4..3	R/W	Uint2	1 = PNP: P1PM101, P1PM103 2 = NPN: P1PM102, P1PM104	0 = Push-Pull 1 = PNP 2 = NPN
A1 NO/NC	0x0001	**1**	2	0	R/W	Bool	0 = NO	0 = NO 1 = NC
Teach button state	0x0001	**1**	3	6	R/W	Bool	0 = On	0 = On 1 = Off
Dynamic Readjustment	0x0001	**1**	3	3	R/W	Bool	1 = On	0 = Off 1 = On
Dynamic Readjustment Storage	0x0001	**1**	3	2	R/W	Bool	1 = On	0 = Off 1 = On
Dynamic Readjustment Time	0x0001	**1**	3	1..0	R/W	Uint2	0 = 3600 s	0 = 3600 s 1 = 1800 s 2 = 600 s 3 = 60 s