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P18Hxxx

Reflex Sensors with Background Suppression

IO-Link

Interface Description

Subject to change without notice
Available as PDF version only
Version: 1.1.0
Status: 16.01.2025
www.wenglor.com

IO-Link P18Hxxx

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)
P18H001	0x290308	2687752	29 03 08	41 3 8
P18H002	0x29030A	2687754	29 03 0A	41 3 10
P18H003	0x000032	50	00 00 32	00 00 50

IO-Link Version:	V1.1
Parameter Server / Data Storage:	No
Blockparameter:	No
MinCycletime:	4,8 ms
SIO-Mode:	Yes
COM-Mode:	COM2
ISDU:	No
Process data In (Device to Master)	16 Bit
Process data Out (Master to Device)	–

Process data (Length: 16 Bit)

Subindex	Name	Bit Offset	Length	Range
1	A1 Output	0	Bool	0 = off 1 = on
2	Contamination	1	Bool	0 = off 1 = on
3	---			
4	No signal	3	Bool	0 = off 1 = on
5	Short-circuit	4	Bool	0 = off 1 = on
6	---			
7	Overtemperature	6	Bool	0 = off 1 = on
8	Memory Busy	7	Bool	0 = off 1 = on
9	Measured Value	8…15	Uint8	0…255

Octet 0

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

Octet 1

Subindex	8	7	6	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	Datatype	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 (Bit0...2)	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 (Bit3...5)	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
Operating Mode	0x0001	1	4 (Bit7)	R/W	Bool	0 = Standard	0 = Standard 1 = Interference-free
Switch Point	0x0001	1	3	R/W	Uint8	255	0…255
A1 NO/NC	0x0001	1	2 (Bit0)	R/W	Bool	0 = NO	0 = NO 1 = NC
A2 Pin Function	0x0001	1	2 (Bit1...2)	R/W	Uint2	3 = Teach Input	0 = Antivalent 1 = Error (NO) 2 = Error (NC) 3 = Teach Input
PNP/NPN/Push-Pull	0x0001	1	2 (Bit3...4)	R/W	Uint2	1 = PNP: P18H001, P18H003 2 = NPN: P18H002	0 = Push-Pull 1 = PNP 2 = NPN
Hysteresis	0x0001	1	2 (Bit6)	R/W	Boolean	0 = small	0 = small 1 = large
Emitted Light	0x0001	1	2 (Bit7)	R/W	Boolean	0 = on	0 = on 1 = off
Teach Mode	0x0001	1	1 (Bit0)	R/W	Boolean	0 = Foreground Teach	0 = Foreground Teach 1 = Background Teach
Teach Button Lock	0x0001	1	1 (Bit5)	R/W	Boolean	0 = Button Not Locked	0 = Button Not Locked 1 = Button Locked
Teach	0x0001	1	1 (Bit7)	R/W	Boolean	0 = No Action	0 = No Action 1 = Start Teach