EN

INTT2xx

INTT3xx

Inductive Sensors for Extreme Temperature Ranges with IO-Link V1.1

IO-Link

Interface Description

Subject to change without notice
Available as PDF version only
Status: 27.08.2019
www.wenglor.com

IO-Link

Vendor ID

Product	hex	dec	hex (Bytes)	dec (Bytes)
wenglor sensoric GmbH	0x0057	87	00 57	0 87

Device ID

Produkt	hex	dec	hex (Bytes)	dec (Bytes)
INTT201	0x27FA01	2619905	27 FA 01	39 250 1
INTT203	0x27FA02	2619906	27 FA 02	39 250 2
INTT207	0x27FA03	2619907	27 FA 03	39 250 3
INTT209	0x27FA04	2619908	27 FA 04	39 250 4
INTT211	0x27FA05	2619909	27 FA 05	39 250 5
INTT213	0x27FA06	2619910	27 FA 06	39 250 6
INTT301	0x27FA07	2619911	27 FA 07	39 250 7
INTT303	0x27FA08	2619912	27 FA 08	39 250 8
INTT307	0x27FA09	2619913	27 FA 09	39 250 9
INTT309	0x27FA0A	2619914	27 FA 0A	39 250 10
INTT311	0x27FA0B	2619915	27 FA 0B	39 250 11
INTT313	0x27FA0C	2619916	27 FA 0C	39 250 12

IO-Link Version: V1.1
Min Cycle Time: 3,9 ms
SIO-Mode Yes
COM-Mode COM2

Process Data (Length 2 bit)

Name	Bit Offset	Length	Range
Object presence	0	1 Bit	0 = false = no object 1 = true = object detected
Error indication	1	1 Bit	0 = false = no error 1 = true = error

Parameter

Name	Index (hex)	Index (dec)	Subindex	R/W	Data type	Default value	Range
Identification							
Direct Parameters 1.Vendor ID 1	0x0000	0	8	R	Uint8		
Direct Parameters 1.Vendor ID 2	0x0000	0	9	R	Uint8		
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							
Write parameters to OTP memory	0x0001	1	5	R/W	Uint8	0	0 = No action 146 = Write parameter
Switching Distance	0x0001	1	3 (Bit 0...1)	R/W	Uint2	0	0 = Switching Distance 1 (high) 1 = Switching Distance 2 (middle) 3 = Switching Distance 3 (low)
A1 Function	0x0001	1	3 (Bit 2)	R/W	Bool	0	0 = NO 1 = NC
A2 Function	0x0001	1	3 (Bit 5...6)	R/W	Uint2	1	0 = Antivalent 1 = Error Output (NC) 2 = Error Output (NO) 3 = No Output
Output Mode A1	0x0001	1	3 (Bit 3...4)	R/W	Uint2	1	0 = Push-Pull 1 = PNP 2 = NPN

Notes on Use

RAM-memory
The changed parameters are stored in the volatile memory of the sensor. This could be used for testing and if the configuratin of the sensor changes often (e. g. for different production batches).

Changes have the following effects:
- Sensor behavior is adjusted immediately without a restart according to the changed parameter.
- In case of a sensor restart (e. g. by turrning power off and on) the settings are lost.
- Changes have no effects on the OTP-memory of the sensor.

OTP-memory
By writing the parameters, they are stored in the non-volatile memory. At every start-up the OTP parameters are loaded to the RAM of the sensor. The OPT-memory has limited write cycles. The wenglor sensoric GmbH can guarantee at least 240 writes to the OTP-memory at delivery.
The current number of writes is readable from the parameter „Counter OTP memory“.

Procedure to save parameters in the OTP-memory of the sensor:
1. Test the sensor settings within the application until the desired configuration is clear.
2. Set the parameter „Write parameters to OTP-memory“ to „write parameters“ and send it to the sensor.
3. The configuration is applied directly, and after a restart it is loaded from the OTP-memory.
4. New configuration is stored in the sensors RAM and OTP-memory.