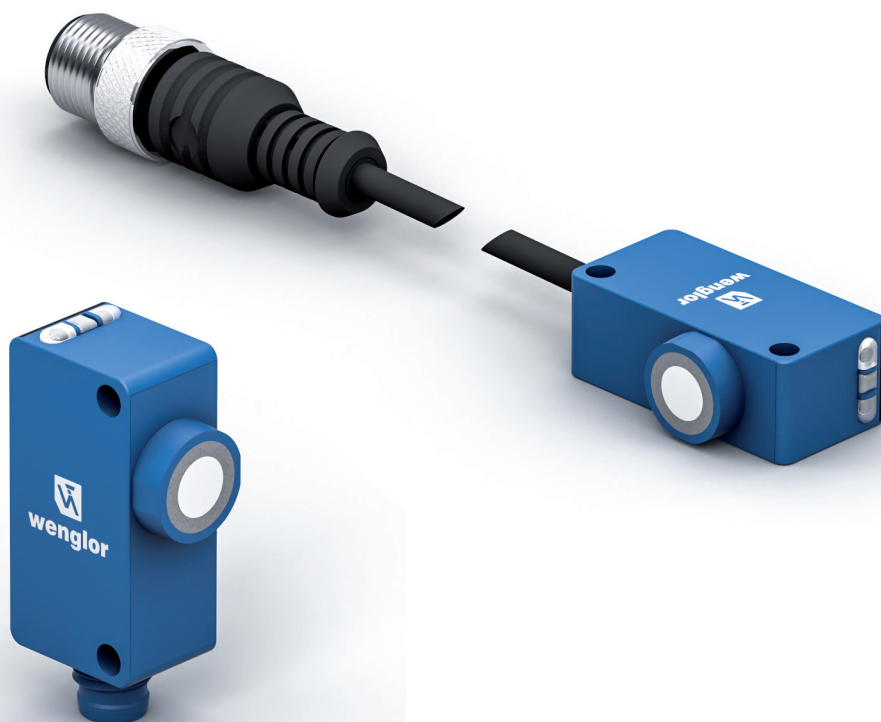


U1KT006

Ultrasonic Reflex Sensor



Interface Description

Original operating instructions
Available as PDF version only
Version: 1.1.0
Status: 31.01.2024
www.wenglor.com

IO-Link U1KT006

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)
U1KT006	0x160A01	1444353	16 0A 01	22 10 1

IO-Link Version: V 1.1
Data Storage: Yes
Blockparameter: Yes
Min Cycle Time: 2,3 ms
SIO-Mode: Yes
COM-Mode: COM2

Process data (Length: 16 Bit) If “Processdatatype” = 0

Subindex	Name	Bit Offset	Length	Range
1	A1 Output	0	1 Bit	0 = false 1 = true
2	A2 Output	1	1 Bit	0 = false 1 = true
3	Measured Value in 1/10 mm	2...15	14 Bit	300...4500

Octet 0

Subindex	3 (MSB)							
Bit Offset	15	14	13	12	11	10	9	8

Octet 1

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

If “Processdatatype” = 1

Subindex	Name	Bit Offset	Length	Range
1	Measured Value in 1/10 mm	0...15	16 Bit	300...4500

Octet 0

Subindex	1 (MSB)							
Bit Offset	15	14	13	12	11	10	9	8

Octet 1

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

Parameter

Name	Index (hex)	Index (dec)	Sub-index	R/W	Length	Data Storage	Dy-namic	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	
Produkt Name	0x0012	18	0	R	String				U1KT006	
Product ID	0x0013	19	0	R	String				U1KT006	
Product Text	0x0014	20	0	R	String				Ultrasonic Distance Sensor	
Serial Number	0x0015	21	0	R	String				—	
Hardware Revision	0x0016	22	0	R	String				—	
Firmware Revision	0x0017	23	0	R	String				—	
Application Specific Name	0x0018	24	0	R/W	String 32 Byte	X			***	
Parameter										
Device Settings										
System Command	0x0002	2	0	W	UInt8			X	—	Factory Reset = 0x82 (130)
Device Access Locks. Parameter (write) Access Lock	0x000C	12	1	R/W	Bool	X			0	0 = unlocked 1 = Parameter Access locked
Device Access Locks. Data Storage Lock	0x000C	12	2	R/W	Bool	X			0	0 = unlocked 1 = Data Storage Locked
Button Lock Mode	0x004A	74	0	R/W	UInt8	X			0	0 = unlocked 1 = locked
Mesasured Value Settings										
Sensor Mode	0x0110	272	0	R/W	UInt8	X		X	0	0 = Normal 3 = Mute 4 = Barrier Emitter 5 = Barrier Receiver
Filter	0x00D0	208	0	R/W	UInt8	X		X	0	0 1 ... 20
Sonic Cone	0x00E0	224	0	R/W	UInt8	X			0	0 = Standard 1 = Small
Processdatatype	0x005A	90	0	R/W	UInt8	X		X	0	0 = Outputs and Measure Value 1 = Measured Value Only
Temperature Mode	0x0049	73	0	R/W	UInt8	X		X	0	0 = Intern 1 = Extern
Extern Temperaturevalue in 1/100 °C	0x0059	89	0	R/W	s16				2300	–4000...8000
Pin Function										
O Pin Function	0x0041	65	0	R/W	UInt8	X		X	7	5 = Not used 7 = Analog output
A1 Switch Output										
A1 Teach Mode	0x0290	656	0	R/W	UInt8	X		X	0	0 = Foreground 1 = Window
A1 NPN/PNP	0x0220	544	0	R/W	UInt8	X			0	0 = PNP 1 = NPN
A1 NO/NC	0x0210	528	0	R/W	UInt8	X			0	0 = NO 1 = NC
A1 Teach-In	0x0200	512	0	W	UInt8	X		X	0	0 = no action 1 = Teach-In Foreground 2 = Teach-In Window Point 1 3 = Teach-In Window Point 2
A1 Switch Point	0x004D	77	0	R/W	UInt16	X			400 mm	30 mm...400 mm
A1 Window Switch Point Far	0x004F	79	0	R/W	UInt16	X			400 mm	30 mm...400 mm
A1 Window Switch Point Near	0x0051	81	0	R/W	UInt16	X			300 mm	30 mm...400 mm
A1 Hysteresis Additional	0x0230	560	0	R/W	UInt16	X			0 mm	0 mm...200 mm
O Analog Output										
O Analog 0 V	0x0081	129	0	R/W	UInt16	X			30 mm	30...400 mm
O Analog 10 V	0x0082	130	0	R/W	UInt16	X			400 mm	30...400 mm