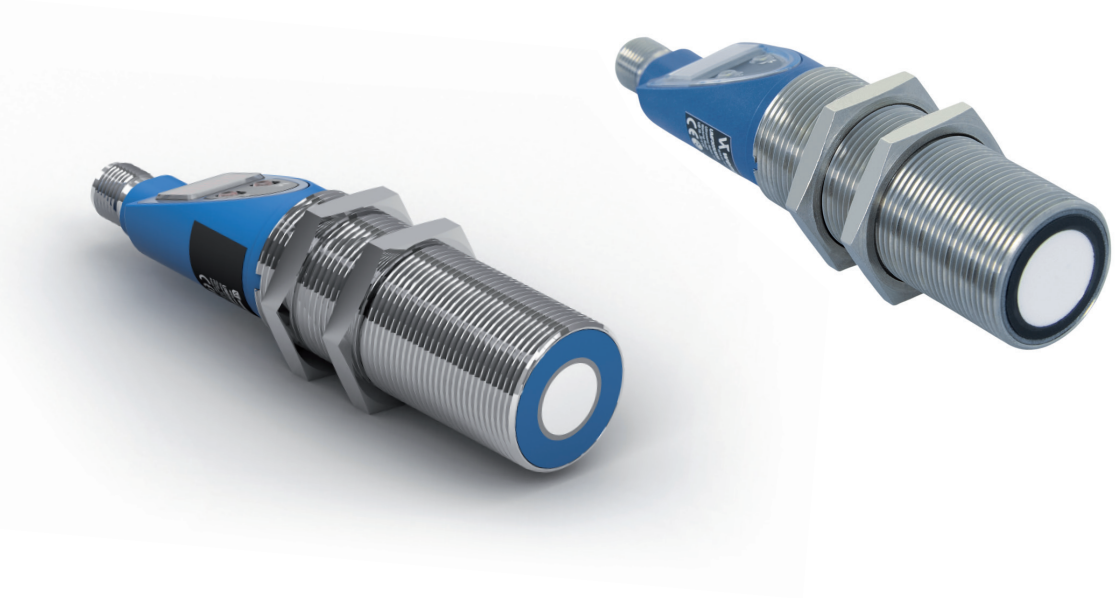
EN

UMFxxxU035

Reflex Sensor



IO-Link

Interface Description

Original operating instructions
Available as PDF version only
Status: 19.01.2026
www.wenglor.com

IO-Link UMFxxxU035

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)
UMF303U035	0x160300	1442560	16 03 00	22 3 0
UMF402U035	0x160400	1442816	16 04 00	22 4 0

IO-Link Version:	V 1.0
Data Storage:	No
Blockparameter:	No
Min Cycle Time:	2,3 ms
SIO-Mode:	Yes
COM-Mode:	COM2

Processdata UMF303 (Length: 16 Bit)

Subindex	Name	Bit offset	Length	Range
1	Output	0	1 Bit	0 = false 1 = true
2	Distance /1/10 mm)	1…15	15 Bit	

	Octet 0							
Subindex	**2 (MSB)**							
Bit offset	15	14	13	12	11	10	9	8

	Octet 1							
Subindex	**2 (LSB)**							**1**
Bit offset	7	6	5	4	3	2	1	0

To get the distance value, the complete process data must be shifted to right 1 Bit to remove the Output information.

Processdata UMF402 (Length: 16 Bit)

Name	Bit Offset	Length	Range
Output	0	1 Bit	0 = false 1 = true
Distance (1/10 mm)	4…15	12 Bit	

Parameter

Name	Index (hex)	Index (dec)	Subindex	R/W	Length	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 ID1	0x0000	0	10	R	Uint8		
Direct Parameters 1.Device ID2	0x0000	0	11	R	Uint8		
Direct Parameters 1.Device ID3	0x0000	0	12	R	Uint8		
Parameter							
Sensor Parameters							
Device Reset	0x0001	1	1 (Bit 0)	R/W	Bool		0 = – 1 = Reset
Teach	0x0001	1	1 (Bit 1)	R/W	Bool		0 = – 1 = Teach-In
Teach-In Input	0x0001	1	1 (Bit 2)	R/W	Bool		0 = Enabled 1 = Locked
NC/NO	0x0001	1	1 (Bit 3)	R/W	Bool		0 = NO 1 = NC
Teach Mode	0x0001	1	1 (Bit 4)	R/W	Bool		0 = Foreground Teach-In 1 = Window Teach-In
Teach 2. Point	0x0001	1	1 (Bit 5)	R/W	Bool		0 = – 1 = Teach-In
Switching- /Error Output	0x0001	1	1 (Bit 6)	R/W	Bool		0 = Switching Output 1 = Error Output
Multiplex Address	0x0001	1	2 (Bit 0…3)	R/W	Uint4		1…15
Multiplex Devices	0x0001	1	2 (Bit 4…7)	R/W	Uint4		1…15
Operating Mode	0x0001	1	3 (Bit 0…23)	R/W	Uint4		0 = Normal 1 = Syncron Mode Slave 2 = Syncron Mode Master 3 = Syncron Mode Receiver 4 = Multiplex Slave 5 = Multiplex Master 6 = Mute
Lock Control Panel	0x0001	1	3 (Bit 4)	R/W			0 = Enabled 1 = Locked
Sonic Cone	0x0001	1	3 (Bit 5…6)	R/W	Uint2		0 = Extra slim 1 = Slim 2 = Medium width 3 = Standard
Temperature Mode	0x0001	1	3 (Bit 7)	R/W	Bool		0 = Internal 1 = External
ext Temperature (High Byte)	0x0001	1	4	R/W	Uint8		
ext Temperature (Low Byte)	0x0001	1	5	R/W	Uint8		
Filter	0x0001	1	6 (Bit 0…3)	R/W	Uint4		0…7
Analog Mode	0x0001	1	6 (Bit 4)	R/W	Bool		0 = 0…10 V 1 = 4…20 mA
Analog invert	0x0001	1	6 (Bit 5)	R/W	Bool		0 = Off 1 = Inverted
Switch Point 1 (High Byte)	0x0001	1	7	R/W	Uint8		
Switch Point 1(Low Byte)	0x0001	1	8	R/W	Uint8		
Switch Point 2 (High Byte)	0x0001	1	9	R/W	Uint8		
Switch Point 2 (Low Byte)	0x0001	1	10	R/W	Uint8		
Hysteresis (High Byte)	0x0001	1	11	R/W	Uint8		
Hysteresis (Low Byte)	0x0001	1	12	R/W	Uint8		