

ULTRASONIC SENSORS

HIGHLIGHTS

- ✓ Detection independent of target material, color, shape or surface
- ✓ Ready-to-use cylindrical sensors with integral connector
- ✓ Easy adjustment by either potentiometer or teach-in
- ✓ Dual output sensors, including analog and digital
- ✓ High resolution analog output, current or voltage
- ✓ Normal length or short housings
- ✓ Reduced blind zone
- ✓ High excess gain, insensitive to dirt and ambient noise

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Смоленск (4812)29-41-54
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Ставрополь (8652)20-65-13
Сургут (3462)77-98-35
Сыктывкар (8212)25-95-17
Тамбов (4752)50-40-97
Тверь (4822)63-31-35

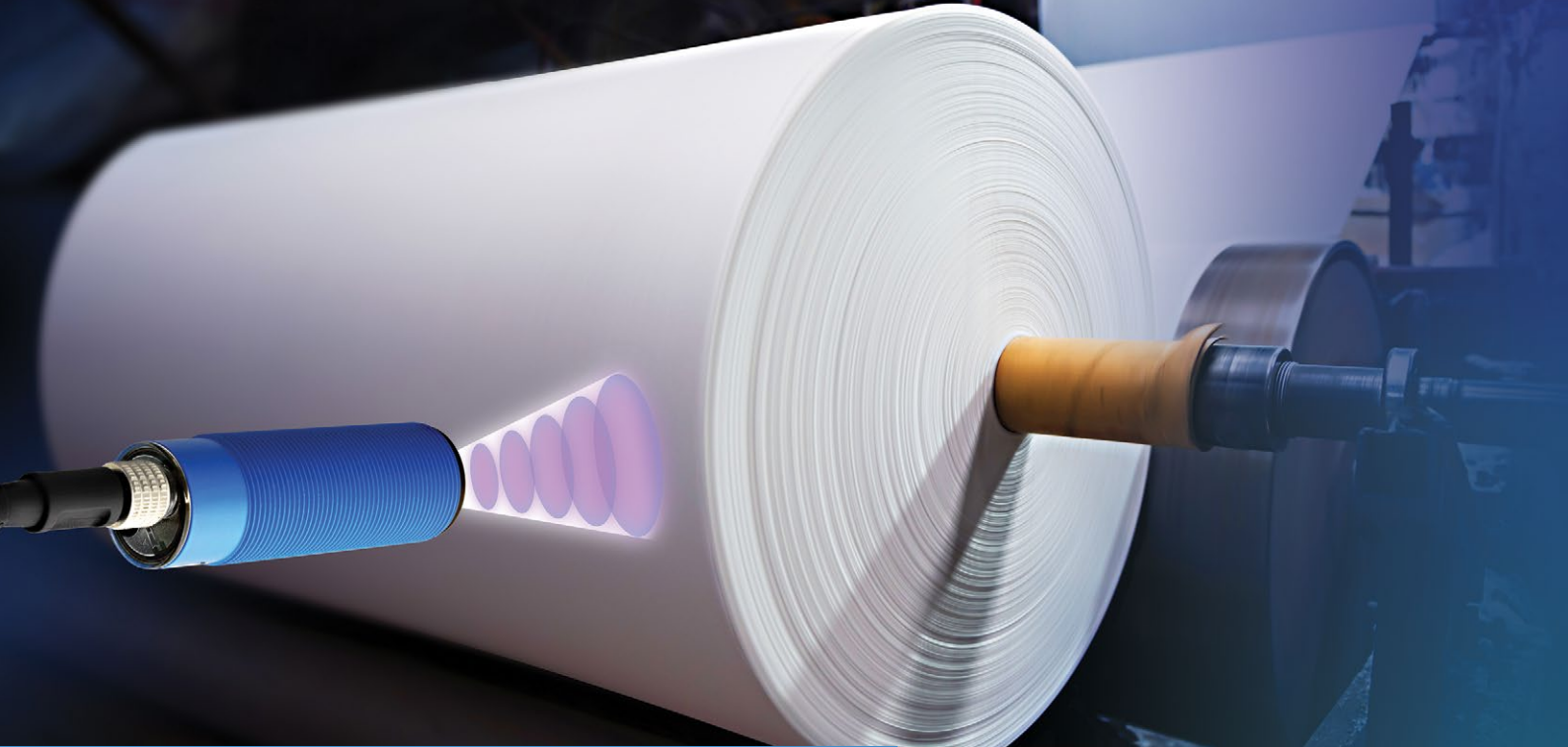
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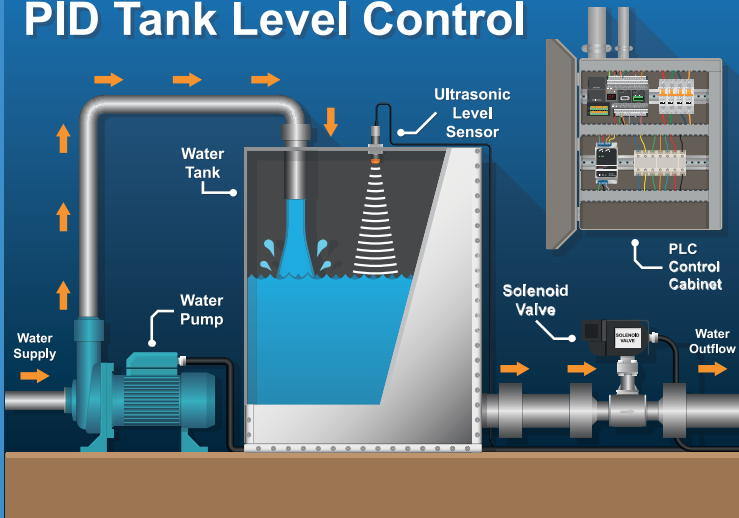
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PID Tank Level Control



APPLICATION

Diffuse ultrasonic sensor provides continuous measurement of fill level for water-tank control system

Within a water-supply system, the fill level of a tank must be monitored to ensure a continuous supply of water at a constant pressure. A cost-effective solution is to mount a single diffuse-type ultrasonic sensor in the cover of the tank, where it can provide the control system with constant measurement of the water level. Depending on this information, the control system switches the inlet pump on or off, adjusts its motor speed, and opens or closes the outlet valve.

INDUSTRIES

Packaging, logistics, materials handling, food and beverage, agriculture, filling machines



Level monitoring in plastic production



Liquid level sensing in food industry



Brewery production equipment



Logistics systems

ULTRASONIC SENSORS

IDEAL FOR LIQUID OR GRANULAR TARGETS

Ultrasonic sensors provide reliable, non-contact detection of solid, liquid, granular or powdered materials in air. They emit a high-frequency acoustic signal in the direction of the target and evaluate the reflected signal. The target is detected and, simultaneously, its distance from the sensor can be calculated precisely from the signal's transit time. The target material may be transparent or colored and may have a polished or matt surface.

KEY ADVANTAGES

- ✓ Precise control of position, distance, height and level
- ✓ Sensing ranges up to 6,000 mm
- ✓ Range setting and NO/NC configuration by teach button or wire
- ✓ Diffuse types with foreground and background suppression
- ✓ Reflex types with no blind zone
- ✓ Robust housings in food-grade stainless steel or plastic with integral M12 connector, IP67
- ✓ M18 in standard or short body
- ✓ M30 in standard body or with large head
- ✓ Various output types, including analog, voltage and current
- ✓ Crosstalk prevention through synchronization and multiplexing mode
- ✓ Insensitive to dirt and ambient noise
- ✓ Temperature range $-20 \dots +70^{\circ}\text{C}$ ($-4 \dots +158^{\circ}\text{F}$)



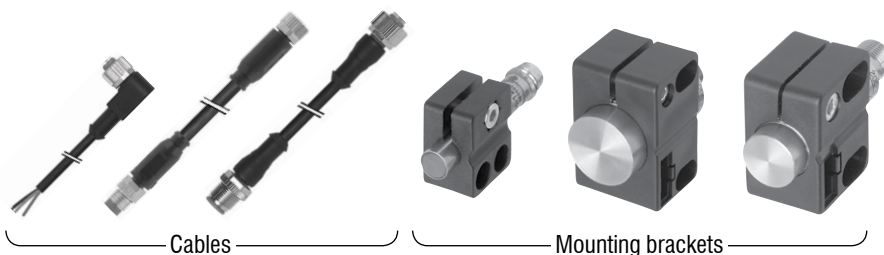
PRODUCT OVERVIEW

*Metal or plastic housing **Plastic housing

SERIES Housing size mm		M18 short body*	M18 standard body*	M30 standard body*	M30 large head**
s _n mm	Diffuse	300/1,200	900/2,000	2,500/3,500	6,000
	Reflex	300/1,200	900/2,000	—	—

ACCESSORIES

Go to page 298 to see all the accessories



ULTRASONIC SENSORS M18

COMMON FEATURES

Supply Voltage range	15 ... 30 VDC
Output	PNP*

* Other types available: NPN

OUTPUT

Sensor type
[R] Reflex
[T] Diffuse

see p. 210

see p. 210

US[x]-[xxx][x][x]-[xxx]-[xxx]

see p. 210

Housing size
[M18] M18
[M30] M30

Housing material
[M] Metal
[P] Plastic

Reference key on page 210

OPERATING PRINCIPLE

 Diffuse

 Reflex

ACCESSORIES

 **Group A: M8 3-pin**
Sub-group: Field attachable connectors
Sub-group: Distribution boxes

 **Group B: M8 4-pin**
Sub-group: Field attachable connectors

 **Group C: M12 4-pin**
Sub-group: Field attachable connectors
Sub-group: Distribution boxes

 **Group D: M12 AC/DC 3-pin**

 **Group E: Universal mounting brackets**
Sub-group: Mechanical stops

 **Group F: Photoelectric mounting brackets**

 **Group G: Photoelectric reflectors**

 **Group H: Sensor tester**

Go to page 298 for details



CABLES
Cable lengths available:
2 m, 5 m, 10 m
other customised lengths possible

ULTRASONIC SMALL M18

FAMILY	OPERATING PRINCIPLE	OPERATING RANGE (mm)	HOUSING SIZE (mm)	PRODUCT RANGE	
SMALL M18		300	M18	Short body	
		1,200	M18	Short body	
		300	M18	Short body	
		1,200	M18	Short body	
		300	M18	Short body	
		1,200	M18	Short body	
		300	M18	Short body	
		1,200	M18	Short body	
		900	M18	Standard body	
		2,000	M18	Standard body	
		900	M18	Standard body	
		2,000	M18	Standard body	
		900	M18	Standard body	
		2,000	M18	Standard body	
		900	M18	Standard body	
		2,000	M18	Standard body	
		900	M18	Standard body	
		2,000	M18	Standard body	
		900	M18	Standard body	
		2,000	M18	Standard body	
		900	M18	Standard body	
		2,000	M18	Standard body	
		900	M18	Standard body	
		2,000	M18	Standard body	

KEY ADVANTAGES

- ✓ Precise control of position, distance, height and level
- ✓ Sensing ranges up to 6,000 mm
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- ✓ Various output types, including analog, voltage and current
- ✓ Diffuse types with foreground and background suppression
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- ✓ M30 in standard body or with large head
- ✓ Crosstalk prevention through synchronization and multiplexing mode
- ✓ Insensitive to dirt and ambient noise
- ✓ Temperature range $-20 \dots +70^{\circ}\text{C}$ ($-4 \dots +158^{\circ}\text{F}$)



	HOUSING MATERIAL	CONNECTOR	SWITCHING FREQUENCY (Hz)	OUTPUT 1	OUTPUT 2	OUTPUT 3	PART REFERENCE*	ACCESSORIES (SEE PAGE 204)
	PBTP	M12	8	NO (default)/NC	–	–	UST-M18PC-WSS-303	C E H
	PBTP	M12	5	NO (default)/NC	–	–	UST-M18PC-WMS-303	C E H
	PBTP	M12	8	NO (default)/NC	–	–	USR-M18PC-WSS-303	C E H
	PBTP	M12	3	NO (default)/NC	–	–	USR-M18PC-WMS-303	C E H
	Stainless steel V2A	M12	8	NO (default)/NC	–	–	UST-M18MC-WSS-303	C E H
	Stainless steel V2A	M12	5	NO (default)/NC	–	–	UST-M18MC-WMS-303	C E H
	Stainless steel V2A	M12	8	NO (default)/NC	–	–	USR-M18MC-WSS-303	C E H
	Stainless steel V2A	M12	3	NO (default)/NC	–	–	USR-M18MC-WMS-303	C E H
	PBTP	M12	4	NO (default)/NC	–	–	UST-M18PS-TMS-403	C E H
	PBTP	M12	2	NO (default)/NC	–	–	UST-M18PS-TLS-403	C E H
	PBTP	M12	4	NO (default)/NC	NO (default)/NC	–	UST-M18PS-TMS-603	C E H
	PBTP	M12	2	NO (default)/NC	NO (default)/NC	–	UST-M18PS-TLS-603	C E H
	PBTP	M12	4	NO (default)/NC	NO (default)/NC	4 ... 20 mA	UST-M18PS-TMS-839	E H
	PBTP	M12	2	NO (default)/NC	NO (default)/NC	4 ... 20 mA	UST-M18PS-TLS-839	E H
	PBTP	M12	4	NO (default)/NC	NO (default)/NC	0 ... 10 V	UST-M18PS-TMS-83A	E H
	PBTP	M12	2	NO (default)/NC	NO (default)/NC	0 ... 10 V	UST-M18PS-TLS-83A	E H
	PBTP	M12	4	NO (default)/NC	NO (default)/NC	SYNC/MUX	UST-M18PS-TMS-813	E H
	PBTP	M12	2	NO (default)/NC	NO (default)/NC	SYNC/MUX	UST-M18PS-TLS-813	E H
	PBTP	M12	4	NO (default)/NC	–	–	USR-M18PS-TMS-403	C E H
	PBTP	M12	2	NO (default)/NC	–	–	USR-M18PS-TLS-403	C E H
	Stainless steel V2A	M12	4	NO (default)/NC	–	–	UST-M18MS-TMS-403	C E H
	Stainless steel V2A	M12	2	NO (default)/NC	–	–	UST-M18MS-TLS-403	C E H
	Stainless steel V2A	M12	4	NO (default)/NC	NO (default)/NC	–	UST-M18MS-TMS-603	C E H

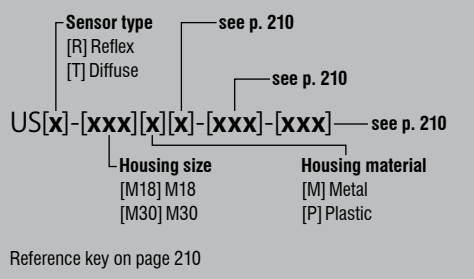
ULTRASONIC SENSORS M18, M30

COMMON FEATURES

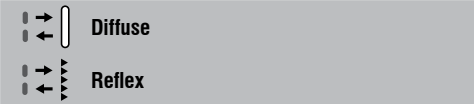
Supply Voltage range	15 ... 30 VDC
Output	PNP*

*Other types available: NPN

OUTPUT



OPERATING PRINCIPLE



ACCESSORIES



A Group A: M8 3-pin
Sub-group: Field attachable connectors
Sub-group: Distribution boxes



B Group B: M8 4-pin
Sub-group: Field attachable connectors



C Group C: M12 4-pin
Sub-group: Field attachable connectors
Sub-group: Distribution boxes



D Group D: M12 AC/DC 3-pin



E Group E: Universal mounting brackets
Sub-group: Mechanical stops



F Group F: Photoelectric mounting brackets



G Group G: Photoelectric reflectors



H Group H: Sensor tester

Go to page 298 for details



CABLES

Cable lengths available:
2 m, 5 m, 10 m
other customised lengths possible

ULTRASONIC SMALL M18 COMPACT M30

FAMILY	OPERATING PRINCIPLE	OPERATING RANGE (mm)	HOUSING SIZE (mm)	PRODUCT RANGE
SMALL M18		2,000	M18	Standard body
		900	M18	Standard body
		2,000	M18	Standard body
		900	M18	Standard body
		2,000	M18	Standard body
		900	M18	Standard body
		2,000	M18	Standard body
		900	M18	Standard body
		2,000	M18	Standard body
COMPACT M30		2,500	M30	Standard body
		2,500	M30	Standard body
		2,500	M30	Standard body
		2,500	M30	Standard body
		2,500	M30	Standard body
		3,500	M30	Standard body
		3,500	M30	Standard body
		3,500	M30	Standard body
		3,500	M30	Standard body
		3,500	M30	Standard body
		2,500	M30	Standard body
		2,500	M30	Standard body
		2,500	M30	Standard body
		2,500	M30	Standard body
		2,500	M30	Standard body

KEY ADVANTAGES

- ✓ Precise control of position, distance, height and level
- ✓ Sensing ranges up to 6,000 mm
- ✓ Range setting and NO/NC configuration by teach button or wire
- ✓ Various output types, including analog, voltage and current
- ✓ Diffuse types with foreground and background suppression
- ✓ Reflex types with no blind zone
- ✓ Robust housings in food-grade stainless steel or plastic with integral M12 connector, IP67
- ✓ M18 in standard or short body
- ✓ M30 in standard body or with large head
- ✓ Crosstalk prevention through synchronization and multiplexing mode
- ✓ Insensitive to dirt and ambient noise
- ✓ Temperature range $-20 \dots +70^{\circ}\text{C}$ ($-4 \dots +158^{\circ}\text{F}$)



	HOUSING MATERIAL	CONNECTOR	SWITCHING FREQUENCY (Hz)	OUTPUT 1	OUTPUT 2	OUTPUT 3	PART REFERENCE*	ACCESSORIES (SEE PAGE 206)
	Stainless steel V2A	M12	2	NO (default)/NC	NO (default)/NC	–	UST-M18MS-TLS-603	C E H
	Stainless steel V2A	M12	4	NO (default)/NC	NO (default)/NC	4 ... 20 mA	UST-M18MS-TMS-839	E H
	Stainless steel V2A	M12	2	NO (default)/NC	NO (default)/NC	4 ... 20 mA	UST-M18MS-TLS-839	E H
	Stainless steel V2A	M12	4	NO (default)/NC	NO (default)/NC	0 ... 10 V	UST-M18MS-TMS-83A	E H
	Stainless steel V2A	M12	2	NO (default)/NC	NO (default)/NC	0 ... 10 V	UST-M18MS-TLS-83A	E H
	Stainless steel V2A	M12	4	NO (default)/NC	NO (default)/NC	SYNC/MUX	UST-M18MS-TMS-813	E H
	Stainless steel V2A	M12	2	NO (default)/NC	NO (default)/NC	SYNC/MUX	UST-M18MS-TLS-813	E H
	Stainless steel V2A	M12	4	NO (default)/NC	–	–	USR-M18MS-TMS-403	C E H
	Stainless steel V2A	M12	2	NO (default)/NC	–	–	USR-M18MS-TLS-403	C E H
	PBTP	M12	2	NO (default)/NC	–	–	UST-M30PS-TMS-403	C E H
	PBTP	M12	2	NO (default)/NC	NO (default)/NC	–	UST-M30PS-TMS-603	C E H
	PBTP	M12	2	NO (default)/NC	NO (default)/NC	4 ... 20 mA	UST-M30PS-TMS-839	E H
	PBTP	M12	2	NO (default)/NC	NO (default)/NC	0 ... 10 V	UST-M30PS-TMS-83A	E H
	PBTP	M12	2	NO (default)/NC	NO (default)/NC	SYNC/MUX	UST-M30PS-TMS-813	E H
	PBTP	M12	2	NO (default)/NC	–	–	UST-M30PS-TLS-403	C E H
	PBTP	M12	2	NO (default)/NC	NO (default)/NC	–	UST-M30PS-TLS-603	C E H
	PBTP	M12	2	NO (default)/NC	NO (default)/NC	4 ... 20 mA	UST-M30PS-TLS-839	E H
	PBTP	M12	2	NO (default)/NC	NO (default)/NC	0 ... 10 V	UST-M30PS-TLS-83A	E H
	PBTP	M12	2	NO (default)/NC	NO (default)/NC	SYNC/MUX	UST-M30PS-TLS-813	E H
	Stainless steel V2A	M12	2	NO (default)/NC	–	–	UST-M30MS-TMS-403	C E H
	Stainless steel V2A	M12	2	NO (default)/NC	NO (default)/NC	–	UST-M30MS-TMS-603	C E H
	Stainless steel V2A	M12	2	NO (default)/NC	NO (default)/NC	4 ... 20 mA	UST-M30MS-TMS-839	E H

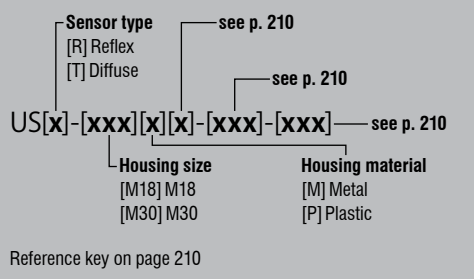
ULTRASONIC SENSORS M30

COMMON FEATURES

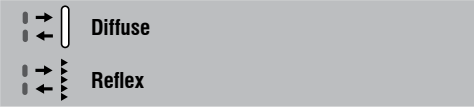
Supply Voltage range	15 ... 30 VDC
Output	PNP*

* Other types available: NPN

OUTPUT



OPERATING PRINCIPLE



ACCESSORIES

**A** Group A: M8 3-pin
Sub-group: Field attachable connectors
Sub-group: Distribution boxes

**B** Group B: M8 4-pin
Sub-group: Field attachable connectors

**C** Group C: M12 4-pin
Sub-group: Field attachable connectors
Sub-group: Distribution boxes

**D** Group D: M12 AC/DC 3-pin

**E** Group E: Universal mounting brackets
Sub-group: Mechanical stops

**F** Group F: Photoelectric mounting brackets

**G** Group G: Photoelectric reflectors

**H** Group H: Sensor tester

Go to page 298 for details

**CABLES**
Cable lengths available:
2 m, 5 m, 10 m
other customised lengths possible

ULTRASONIC COMPACT M30

FAMILY	OPERATING PRINCIPLE	OPERATING RANGE (mm)	HOUSING SIZE (mm)	PRODUCT RANGE
COMPACT M30		2,500	M30	Standard body
		2,500	M30	Standard body
		3,500	M30	Standard body
		3,500	M30	Standard body
		3,500	M30	Standard body
		3,500	M30	Standard body
		3,500	M30	Standard body
		3,500	M30	Standard body
		6,000	M30	Large head
		6,000	M30	Large head
		6,000	M30	Large head
		6,000	M30	Large head
		6,000	M30	Large head
		6,000	M30	Large head

KEY ADVANTAGES

- ✓ Precise control of position, distance, height and level
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- ✓ Robust housings in food-grade stainless steel or plastic with integral M12 connector, IP67
- ✓ M18 in standard or short body
- ✓ M30 in standard body or with large head
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- ✓ Insensitive to dirt and ambient noise
- ✓ Temperature range $-20 \dots +70^{\circ}\text{C}$ ($-4 \dots +158^{\circ}\text{F}$)



	HOUSING MATERIAL	CONNECTOR	SWITCHING FREQUENCY (Hz)	OUTPUT 1	OUTPUT 2	OUTPUT 3	PART REFERENCE *	ACCESSORIES (SEE PAGE 208)
	Stainless steel V2A	 M12	2	NO (default)/NC	NO (default)/NC	0 ... 10 V	UST-M30MS-TMS-83A	
	Stainless steel V2A	 M12	2	NO (default)/NC	NO (default)/NC	SYNC/MUX	UST-M30MS-TMS-813	
	Stainless steel V2A	 M12	2	NO (default)/NC	–	–	UST-M30MS-TLS-403	
	Stainless steel V2A	 M12	2	NO (default)/NC	NO (default)/NC	–	UST-M30MS-TLS-603	
	Stainless steel V2A	 M12	2	NO (default)/NC	NO (default)/NC	4 ... 20 mA	UST-M30MS-TLS-839	
	Stainless steel V2A	 M12	2	NO (default)/NC	NO (default)/NC	0 ... 10 V	UST-M30MS-TLS-83A	
	Stainless steel V2A	 M12	2	NO (default)/NC	NO (default)/NC	SYNC/MUX	UST-M30MS-TLS-813	
	PBTP	 M12	1	NO (default)/NC	–	–	UST-M30PO-TXS-403	
	PBTP	 M12	1	NO (default)/NC	NO (default)/NC	–	UST-M30PO-TXS-603	
	PBTP	 M12	1	NO (default)/NC	NO (default)/NC	4 ... 20 mA	UST-M30PO-TXS-839	
	PBTP	 M12	1	NO (default)/NC	NO (default)/NC	0 ... 10 V	UST-M30PO-TXS-83A	
	PBTP	 M12	1	NO (default)/NC	NO (default)/NC	SYNC/MUX	UST-M30PO-TXS-813	

ULTRASONIC SENSORS REFERENCE KEY

UST-M18PS-TMS-403

ULTRASONIC SENSOR US

SENSOR TYPE

Reflex	R
Diffuse	T

HOUSING TYPE

Cylindrical threaded	M
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HOUSING SIZE

Ø18 mm	18
Ø30 mm	30

HOUSING MATERIAL

Metal	M
Plastic	P

HOUSING FORM

Short	C
Standard	S
Large head	O

OUTPUT

NPN	01
PNP	03
4 ... 20 mA	09
0 ... 10 V	0A
NPN + SYNC/MUX	11
PNP + SYNC/MUX	13
NPN + 4 ... 20 mA	29
PNP + 4 ... 20 mA	39
NPN + 0 ... 10 V	2A
PNP + 0 ... 10 V	3A

Device 2 outputs	1
Device 1 output	3
Device 1 output with IO-Link	4
Device 2 outputs with IO-Link	6
Device 3 outputs	7
Device 3 outputs with IO-Link	8

CONNECTION TYPE

Connector	S
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RANGE

Short	S
Standard	M
Long	L
Extra long	X

ADJUSTMENT

Wire Teach	W
Button Teach	T

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Ангарск (3955)60-70-56
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