

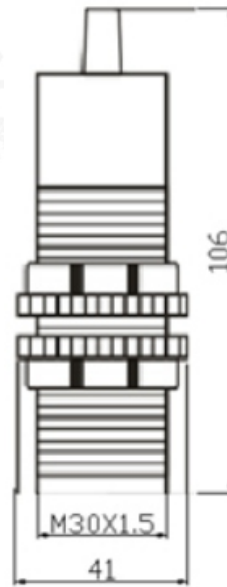
# PRODUCT OVERVIEW

# LEVEL MEASUREMENT

# UL106

## Ultrasonic Distance/Level Sensors

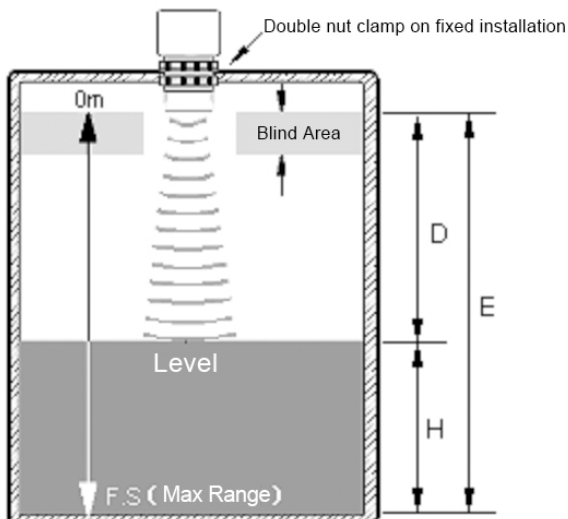
### Profiles



(Unit: mm)

UL106 Ultrasonic Sensor combines ultrasonic sensors, temperature sensors, ultrasonic servo circuit, transmission circuit and uses SMD components and ASIC which is developed together with the United States partner. All these features realize a concise and smart level transmitter. All gold-plated circuit boards, internal electromagnetic shielding and software digital filter are tested for (industrial) 48 hour under high and low temperature aging. It promises higher and long-term reliability. Shell is made of Copper chrome plating, small and quite sturdy. The body is shape sophisticated aesthetics, waterproof, dustproof, and can adapt to the most of working conditions on site. A very quick and easy installation, maintenance can be realized.

### Installation



E ---The total face height of container to the sensor, that is the actual installation height;

D --- The height of the sensor to the surfaces of level.

H --- That is the actual level height

## Specification

Parameter	UL106			
Level Range	0-1m	0-2m	0-4m	0-6m optional
Blind area	≤ 20cm			
Beam angle	< 9°	10°	15°	
Accuracy	0.25%F.S. or 3 mm			
Output	Voltage	Current	Serial port	Switch signal
	1~5V;0~5V; 0~10V;1~10V	4 ~ 20mA 0 ~ 20mA (loading big than 300 ohm)	Rs485 (Modbus)	PNP, NPN, Relay output optional (Max 2 channels)
Power supply	DC12-24V/50mA			
Consumption	< 1.5W			
Min. resolution	1mm			
Frequency	200KHz	175KHz		
Protection class	IP65 (default); IP67, IP68 (customized!)			
Operation temp.	-20°C ~60°C			
Housing	SUS304/Copper chrome plating/ABS			
Cable	User defined (with connectors)			
Dimension	Φ41mm x 106mm x M30			
Installation	M30*1.5 male thread			

## Wiring connection

Electronic Wires Connection		
Current	Red	Vcc+
	Yellow	Signal+
Voltage	Red	Vcc+
	Yellow	Signal+
	Black	GND
RS485	Red	Vcc+
	Yellow	RS485A
	White	RS485B
	Black	GND

**How to Order**

Part Number Selection Table

<b>UL106</b> Selection Type	<b>02</b>	<b>A</b>	<b>U1</b>	<b>A3</b>	<b>T1</b>	<b>002</b>
Range	01= 1 Meter 02= 2 Meters 03= 3Meters ...					
Water Proof	A= IP66      B= IP65      C= IP67		D=IP68			
Power Supply	U1=DC12V/50mA U2=DC24V/50mA					
Output	A3=Current Output (4-20mA 3 wires) A4=Current Output (4-20mA 4 wires) N1/N2=Switch output (1 or 2 switches) J1 = Relay (Upper & Lower alarm) V1=Voltage output (0-5V) V2= Voltage output (1-5V) V3= Voltage output (0-10V) V4= Voltage output (1-10V) R=Digital RS485(MCU Protocol) X=By Customized					
Temperature	T= 0...50 °C T1= -10...60 °C T2= -20...70 °C					
Cable Length	001= 1 Meter	002= 2 Meters	X= By Customized			