26GHz Radar Level Transmitter

Product Manual

Model: SRSRLT-90X SERIES
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1. Product Overview

This series of radar level meter adopted 26G high frequency radar sensor, the maximum measurement range can reach up to 80 meters. Antenna is optimized further processing, the new fast microprocessors have higher speed and efficiency can be done signal analysis, the instrumentation can be used for reactor, solid silo and very complex measurement environment.

Principle

Radar level transmitter antenna microwave pulse is narrow, the downward transmission antenna. Microwave exposure to the medium surface is reflected back again by the antenna system receives, sends the signal to the electronic circuit automatically converted into level signals (because the microwave propagation speed, electromagnetic wave to reach the target and the reflected back to the receiver this time is almost instantaneous).

Datum measurement: Screw thread bottom or the sealing surface of the flange.

Note: Make sure the radar level meter the highest level cannot enter the measuring blind area (Figure D shown below).

The characteristics of 26G radar level transmitter:

- Small antenna size, easy to install; Non-contact radar, no wear, no pollution.
- Almost no corrosion, bubble effect; almost not affected by water vapor in the atmosphere, the temperature and pressure changes.
- Serious dust environment on the high level meter work has little effect.
- A shorter wavelength, the reflection of solid surface inclination is better.
- Beam angle is small, the energy is concentrated, can enhance the ability of echo and to avoid interference.
- The measuring range is smaller, for a measurement will yield good results.
- High signal-to-noise ratio, the level fluctuation state can obtain better performance.
- High frequency, measurement of solid and low dielectric constant of the best choice.
2. Product Introduction

**SRSRLT-901**
- **Application:** All kinds of corrosive liquid
- **Measuring Range:** 10 meters
- **Process Connection:** Thread, Flange
- **Process Temperature:** -40°C ~ 130°C
- **Process Pressure:** -0.1 ~ 0.3 MPa
- **Accuracy:** ± 5mm
- **Protection Grade:** IP67
- **Frequency Range:** 26GHz
- **Supply:** 2-wire (DC24V) / 4-wire (DC24V / AC220V)
- **Signal Output:** 4... 20mA / HART (2-wire / 4-wire)
- **Outer Covering:** Aluminum / Plastic / Stainless steel
- **Explosion-proof Grade:** Exia II C T6 Ga / Exd II C T6 Gb

**SRSRLT-902**
- **Application:** Slightly corrosive liquid
- **Measuring Range:** 30 meters
- **Process Connection:** Thread, Flange
- **Process Temperature:**
  - (Standard type): -40°C ~ 130°C
  - (High temperature type): -40°C ~ 230°C
- **Process Pressure:** -0.1 ~ 4.0 MPa
- **Accuracy:** ± 3mm
- **Protection Grade:** IP67
- **Frequency Range:** 26GHz
- **Supply:** 2-wire (DC24V) / 4-wire (DC24V / AC220V)
- **Signal Output:** 4... 20mA / HART (2-wire / 4-wire)
- **Outer Covering:** Aluminum / Plastic / Stainless steel
- **Explosion-proof Grade:** Exia II C T6 Ga / Exd II C T6 Gb

**SRSRLT-902T**
- **Application:** Corrosive liquids, vapors, volatile liquids
- **Measuring Range:** 20 meters
- **Process Connection:** Flange
- **Process Temperature:**
  - (Standard type): -40°C ~ 130°C
  - (High temperature type): -40°C ~ 230°C
- **Process Pressure:** -0.1 ~ 2.0 MPa
- **Protection Grade:** IP67
- **Accuracy:** ±3mm
- **Frequency Range:** 26GHz
- **Supply:** 2-wire (DC24V) / 4-wire (DC24V / AC220V)
- **Signal Output:** 4... 20mA / HART (2-wire / 4-wire)
- **Outer Covering:** Aluminum / Plastic / Stainless steel
- **Explosion-proof Grade:** Exia II C T6 Ga / Exd II C T6 Gb
**SRSRLT-903**

Application: Solid material, Strong dust easy to crystallize, condensation occasion
Measuring Range: 33 meters
Process Connection: Universal Flange
Process Temperature: -40℃~130℃ (Standard type)
-40℃~230℃ (High temperature type)
Process Pressure: -0.1~4.0 MPa (Flat flange)
-0.1~0.3MPa (Universal flange)
Protection Grade: IP67
Accuracy: ±15mm
Frequency Range: 26GHz
Supply: 2-wire (DC24V) / 4-wire (DC24V /AC220V)
Signal Output: 4... 20mA /HART (2-wire / 4-wire)
RS485/ Modbus
Outer Covering: Aluminum / Plastic / Stainless steel
Explosion-proof Grade: Exia Ⅱ C T6 Ga/ Exd Ⅱ C T6 Gb

**SRSRLT-904**

Application: Solid material, Strong dust, easy to crystallize, condensation occasion
Measuring Range: 50 meters
Process Connection: Thread, Universal Flange
Process Temperature: -40℃~130℃ (Standard type)
-40℃~230℃ (High temperature type)
Process Pressure: -0.1 ~ 0.3 MPa
Measurement Accuracy: ±15mm
Protection Grade: IP67
Frequency Range: 26GHz
Supply: 2-wire (DC24V) / 4-wire (DC24V /AC220V)
Signal Output: 4... 20mA /HART (2-wire / 4-wire)
RS485/ Modbus
Outer Covering: Aluminum / Plastic / Stainless steel
Explosion-proof Grade: Exia Ⅱ C T6 Ga/ Exd Ⅱ C T6 Gb

**SRSRLT-905**

Application: Solid particles, Powder
Measuring Range: 18 meters
Process Connection: Thread, Flange
Process Temperature: -40℃~130℃ (Standard type)
-40℃~230℃ (High temperature type)
Process Pressure: -0.1 ~ 4.0 MPa (Flat flange)
-0.1 ~ 0.3 MPa (Universal Flange)
Accuracy: ±15mm
Protection Grade: IP67
Frequency Range: 26GHz
Supply: 2-wire (DC24V) / 4-wire (DC24V /AC220V)
Signal Output: 4... 20mA /HART (2-wire / 4-wire)
RS485/ Modbus
Outer Covering: Aluminum / Plastic / Stainless steel
Explosion-proof Grade: Exia Ⅱ C T6 Ga/ Exd Ⅱ C T6 Gb
SRSRLT-906

Application: Hygienic liquid storage, Corrosive container
Measuring Range: 20 meters
Process Connection: Flange
Medium Temperature: -40℃~100℃
Process Pressure: -0.1~1.6 MPa
Accuracy: ±3mm
Protection Grade: IP67
Frequency Range: 26GHz
Supply: 2-wire (DC24V) / 4-wire (DC24V /AC220V)
Signal Output: 4...20mA/HART (2-wire / 4-wire)
RS485/ Modbus
Outer Covering: Aluminum / Plastic / Stainless steel
Explosion-proof Grade: Exia ⅡC T6 Ga /Exd ⅡC T6 Gb

3. The Installation Requirements

Installation guide:

Be installed in the diameter of the 1/4 or 1/6.
Note: The minimum distance from the tank wall should be 200mm.

Note: ① datum
② The container center or axis of symmetry

The top conical tank level, can be installed at the top of the tank is intermediate, can guarantee the measurement to the conical bottom.
A feed antenna to the vertical alignment surface. If the surface is rough, stack angle must be used to adjust the angle of universal flange of the antenna to the alignment surface.

( Due to the solid surface tilt will cause the echo attenuation, even Loss of signal.)

**Typical installation errors:**

- Conical tank cannot be installed above the feed port.  
  **Note:** outdoor installation should adopt sunshade.

  1. Correct  
  2. Error rainproof measures

- The instrument cannot be installed in the arched or domed roof intermediate. In addition to produce indirect echo is also affected by the echoes. Multiple echo can be larger than the real value of signal echo, because through the top can concentrate multiple echo. So cannot be installed in a central location.

  1. Correct  
  2. Error
There are obstacles affecting measurement needed reflection plate.

Height of nozzle:

Antenna extends into the tank at least 10mm distance.

4. The Electrical Connection

The power supply voltage:

<table>
<thead>
<tr>
<th>Type</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>(4~20)mA/HART (Two wire system)</td>
<td>The power supply and the output current signal sharing a two-core shield cable. The supply voltage range see technical data. For intrinsically safe type must be a safety barrier between the power supply and the instrument.</td>
</tr>
<tr>
<td>(4~20)mA/HART (Four wire system)</td>
<td>Separate power supply and the current signal, respectively using a two-core shielded cable. The supply voltage range see technical data.</td>
</tr>
<tr>
<td>RS485 / Modbus</td>
<td>Power supply and Modbus signal line separated respectively using a two-core shielded cable, the power supply voltage range see technical data.</td>
</tr>
</tbody>
</table>
Connection mode:

- 24V two wire wiring diagram as follows:

![](image1)

- 6~24V RS485/Modbus wiring diagram as follows:

![](image2)

Explosion Proof Connection

The intrinsic safety version sensors (Exia IIC T6) use Alu-die casting housing and filling Silicone rubber sealants internal structure aimed to prevent sparks resulted from circuit failure from leaking out. It is applicable for the continuous level measurement of flammable medium under Exia IIC T6.

A safety barrier must be used together with the intrinsic safety instrument. It is an associated device to this product for the power supply of this product. The main specification is intrinsic safety: Exia IIC, voltage of power supply: 24V DC ±5%, short-circuit current: 135mA, operating current: 4...20mA.

All cables must be shielded. The max length is 500m for the cable from the barrier to the sensor. Stray capacitor ≤ 0.1 μF/Km, stray inductance 1mH/Km. Instrument must be connected to the ground potential. Any unapproved associated device is not allowed to be used.
Safety instructions:

- Please observe the local electrical code requirements!
- Please comply with local requirements for personnel health and safety regulations. All electrical components of instrument operation must be completed by the formal training of professionals.
- Please check the instrument nameplate to provide product specifications meet your requirements. Please make sure that the power supply voltage and instrument nameplate on the requirements.
**Protection grade:**

This instrument meets the protection class IP66/67 requirements, please ensure the waterproof cable sealing head. The following diagram:

![Diagram of cable sealing head]

**How to install to meet the requirements of IP67:**

Please make sure that the sealing head is not damaged.
Please make sure that the cable is not damaged.
Please make sure that the cable for use with electrical connection specification.
Cable into the electrical interface before its curved downward, ensure that the water will not flow into the shell, see the ①
Tighten the cable seal head, see the ②
Please electrical interface will not use blind plug tight, see the ③

**5. Instrument Commissioning**

**There are three kinds of debugging method:**

1) Display / Keyboard
2) Host debugging
3) HART handheld programmer

**Display / Keyboard:**

Please debug the instrumentation by four buttons on the display screen. There are three debug menu languages optional. After debugging is generally used only for display, through the glass window can read measured value very clearly.
PC debugging:

Connected to PC by HART

① RS232 interface or USB interface
② Radar level meter
③ HART adapter
④ 250 Ω resistor

HART handheld programmer:

① HART handheld programmer
② Radar level meter
③ 250 Ω resistor
6. Structure Size  (Unit: mm)

The outer shell:

![Diagram of the outer shell dimensions]

Appearance size:

**SRSRLT-901**

![Diagram of SRSRLT-901 dimensions]

**SRSRLT-902**

![Diagram of SRSRLT-902 dimensions]

<table>
<thead>
<tr>
<th>Flange</th>
<th>Trumpet diameter D</th>
<th>Trumpet length H</th>
</tr>
</thead>
<tbody>
<tr>
<td>DN100</td>
<td>890</td>
<td>142</td>
</tr>
<tr>
<td>DN80</td>
<td>675</td>
<td>203</td>
</tr>
<tr>
<td>DN100</td>
<td>696</td>
<td>293</td>
</tr>
</tbody>
</table>
7. Technical Parameters

**Process Connection**  
Thread G1½” A / Thread 1½” NPT / Flange

**Antenna Material**  
Stainless Steel / PTFE

**The outer shell**
- The seal between the shell and the shell cover: Silicone rubber
- Casing window: Polycarbonate
- The ground terminal: Stainless steel

**The power supply voltage**

*Two wire system*
- The standard type: (16 ~ 26) V DC
- Intrinsically safe: (21.6 ~ 26.4) V DC
- Power dissipation: max 22.5mA / 1W
- Allowable ripple:
  - <100Hz: Uss<1V
  - (100~100K) Hz: Uss<10mV

*Flameproof*
- (22.8 ~ 26.4) V DC 2-wire system
- (198 ~242)V AC 4-wire system / 110V AC 4-wire system
The cable parameters
Cable entrance / plug
1 M20x1.5 cable entrance
1 blind plug
Terminal
Conductor cross section 2.5mm²

Output parameters
The output signal 
(4 ~ 20) mA/RS485
Communication protocol
HART
Resolution
1.6 μ A
Fault signal
Constant current output; 20. 5mA
22mA
3.9mA
The integral time
(0 ~ 36) s, adjustable

Blind area
the ends of the antenna

The maximum distance measurement

<table>
<thead>
<tr>
<th>Code</th>
<th>Distance (meters)</th>
<th>Type</th>
</tr>
</thead>
<tbody>
<tr>
<td>901</td>
<td>10</td>
<td>Liquid type</td>
</tr>
<tr>
<td>902</td>
<td>30</td>
<td>Liquid type</td>
</tr>
<tr>
<td>902T</td>
<td>20</td>
<td>Liquid type</td>
</tr>
<tr>
<td>903</td>
<td>33</td>
<td>Solid type</td>
</tr>
<tr>
<td>904</td>
<td>50</td>
<td>Solid type</td>
</tr>
<tr>
<td>905</td>
<td>18</td>
<td>Solid type</td>
</tr>
<tr>
<td>906</td>
<td>20</td>
<td>Liquid type</td>
</tr>
</tbody>
</table>

Microwave frequency
26GHz

Communication interface
HART communication protocol

The measurement interval
about 1 second (depending on the parameter settings)

Adjust the time
about 1 second (depending on the parameter settings)

Display resolution
1 mm

Working storage and transportation temperature
(-40 ~ 80) °C

Process temperature (the temperature of the antenna part)
901 (-40 ~ 130) °C
902/902T/903/904/905 (-40 ~ 130) °C Standard type / (-40 ~ 230) °C High temperature type
906 (-40 ~ 100) °C

Pressure
Max. 4MPa

Seismic
Mechanical vibration 10m/s², (10 ~ 150) Hz

8. Meter Linearity
SRSRLT-901
Emission angle 20°
Precision See chart
### SRSRLT-902

**Emission angle**  Depending on the size of the antenna
- Ø 46mm  18°
- Ø 76mm  12°
- Ø 96mm  8°
- Ø 121mm  6°

**Precision**  See chart

### SRSTLT-902T

**Emission angle**  Depending on the size of the antenna
- Ø 76mm  14°

**Precision**  See chart

### SRSRLT-903

**Emission angle**  Depending on the size of the antenna
- Ø 46mm  18°
- Ø 76mm  12°
- Ø 96mm  8°
- Ø 121mm  6°

**Precision**  See chart
SRSRLT-904

Emission angle: Depending on the size of the antenna
- Ø: 196mm: 4°
- Ø: 242mm: 4°

Precision: See chart

SRSRLT-905

Emission angle: Depending on the size of the antenna
- Ø: 76mm: 12°
- Ø: 96mm: 8°
- Ø: 121mm: 6°

Precision: See chart

SRSRLT-906

Emission angle: Depending on the size of the antenna
- Ø: 76mm: 12°

Precision: See chart
9. Product Model Selection

SRSRLT-901

<table>
<thead>
<tr>
<th>License</th>
<th>Standard (Non-explosion-proof)</th>
<th>Intrinsically safe (Exia IIC T6 Ga)</th>
<th>Flameproof (Exd IIC T6 Gb)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Antenna Type</td>
<td>F Sealing horn / PTEE / -40...130 °C</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Material / Temperature</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Process Connection / Material</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Thread G1½&quot; A</td>
<td></td>
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<td></td>
</tr>
<tr>
<td>Thread 1½&quot; NPT</td>
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<tr>
<td>Flange DN50 /PP</td>
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<tr>
<td>Flange DN80 /PP</td>
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<tr>
<td>Flange DN100 /PP</td>
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<tr>
<td>Special custom</td>
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</tbody>
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<table>
<thead>
<tr>
<th>The Outlet Pipe Length of the Container</th>
</tr>
</thead>
<tbody>
<tr>
<td>A Outlet pipe 100mm</td>
</tr>
<tr>
<td>B Outlet pipe 200mm</td>
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</tbody>
</table>

<table>
<thead>
<tr>
<th>The Electronic Unit</th>
</tr>
</thead>
<tbody>
<tr>
<td>3 (4~20) mA / 24V DC / HART two wire system</td>
</tr>
<tr>
<td>4 (4~20) mA / 220V AC / HART four wire system</td>
</tr>
<tr>
<td>5 RS485 Modbus / 6~24V/ Four wire system</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Outer Covering / Protection Grade</th>
</tr>
</thead>
<tbody>
<tr>
<td>L Aluminum / Single chamber / IP67</td>
</tr>
<tr>
<td>H Aluminum / Double chamber / IP67</td>
</tr>
<tr>
<td>G Plastic / Single chamber / IP65</td>
</tr>
<tr>
<td>K Stainless steel / Single chamber / IP67</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Cable Line</th>
</tr>
</thead>
<tbody>
<tr>
<td>M M 20x1.5</td>
</tr>
<tr>
<td>N ½&quot; NPT</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Field Display/The Programmer</th>
</tr>
</thead>
<tbody>
<tr>
<td>A With</td>
</tr>
<tr>
<td>X Without</td>
</tr>
</tbody>
</table>
## SRSRLT-902

### License
- **P** Standard (Non-explosion-proof)
- **I** Intrinsically safe (Exia IIC T6 Ga)
- **G** Flameproof (Exd IIC T6 Gb)

### Process Connection / Material
- **G** Thread G1\(\frac{1}{2}\)" / Stainless Steel 304
- **N** Thread 1\(\frac{1}{4}\)" NPT / Stainless Steel 304
- **A** Flange DN50 / Stainless Steel 304
- **B** Flange DN80 / Stainless Steel 304
- **C** Flange DN100 / Stainless Steel 304
- **Y** Special Custom

### Antenna Type / Material
- **A** Horn Antenna Φ46mm / Stainless Steel 316L
- **B** Horn Antenna Φ76mm / Stainless Steel 316L
- **C** Horn Antenna Φ96mm / Stainless Steel 316L
- **Y** Special Custom

### Seal Up / Process Temperature
- **V** Viton / (-40~130) °C
- **K** Kalrez / (-40~230) °C

### The Electronic Unit
- **3** (4~20) mA / 24V DC / HART two wire system
- **4** (4~20) mA / 220V AC / HART four wire system
- **5** RS485 Modbus / 6~24V / Four wire system

### Outer Covering / Protection Grade
- **L** Aluminum / Single chamber / IP67
- **H** Aluminum / Double chamber / IP67
- **G** Plastic / Single chamber / IP65
- **K** Stainless steel / Single chamber / IP67

### Cable Line
- **M** M 20x1.5
- **N** \(\frac{1}{2}\)" NPT

### Field Display / The Programmer
- **A** With
- **X** Without
# SRSRLT-902T

## License

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<table>
<thead>
<tr>
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<tbody>
<tr>
<td>P</td>
<td>Standard (Non-explosion-proof)</td>
</tr>
<tr>
<td>I</td>
<td>Intrinsically safe (Exia IIC T6 Ga)</td>
</tr>
<tr>
<td>G</td>
<td>Flameproof Type (Exd IIC T6 Gb)</td>
</tr>
</tbody>
</table>

## Process Connection / Material

<p>| | |</p>
<table>
<thead>
<tr>
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<tbody>
<tr>
<td>A</td>
<td>Flange DN80 / Stainless Steel 304</td>
</tr>
<tr>
<td>B</td>
<td>Flange DN100 / Stainless Steel 304</td>
</tr>
<tr>
<td>C</td>
<td>Flange DN150 / Stainless Steel 304</td>
</tr>
<tr>
<td>Y</td>
<td>Special Custom</td>
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</table>

## Antenna Type / Material

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<thead>
<tr>
<th></th>
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</thead>
<tbody>
<tr>
<td>A</td>
<td>Internal tapered rod antenna PVDF / 78mm</td>
</tr>
<tr>
<td>B</td>
<td>Internal tapered rod antenna PFA / 78mm</td>
</tr>
<tr>
<td>C</td>
<td>Internal tapered rod antenna PVDF / 1468mm</td>
</tr>
</tbody>
</table>

## Seal Up / Process Temperature

<p>| | |</p>
<table>
<thead>
<tr>
<th></th>
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<tbody>
<tr>
<td>V</td>
<td>Viton / (-40~130) °C</td>
</tr>
<tr>
<td>P</td>
<td>PFA / (-40~230) °C</td>
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## The Electronic Unit

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<td>3</td>
<td>(4~20) mA / 24V DC / HART 2-wire system</td>
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<td>RS485 Modbus / 6~24V/ Four wire system</td>
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## Outer Covering / Protection Grade

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<td>Plastic / Single chamber / IP65</td>
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<tr>
<td>K</td>
<td>Stainless steel / Single chamber / IP67</td>
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</tbody>
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## Cable Line

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<table>
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<tr>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>M</td>
<td>M 20x1.5</td>
</tr>
<tr>
<td>N</td>
<td>½&quot; NPT</td>
</tr>
</tbody>
</table>

## Field Display/The Programmer

<p>| | |</p>
<table>
<thead>
<tr>
<th></th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>A</td>
<td>With</td>
</tr>
<tr>
<td>X</td>
<td>Without</td>
</tr>
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</table>
### SRSRLT-903

#### License

<table>
<thead>
<tr>
<th>Letter</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>P</td>
<td>Standard (Non-explosion-proof)</td>
</tr>
<tr>
<td>I</td>
<td>Intrinsically safe (Exia IIC T6 Ga)</td>
</tr>
<tr>
<td>G</td>
<td>Flameproof (Exd IIC T6 Gb)</td>
</tr>
</tbody>
</table>

#### Process Connection / Material

<table>
<thead>
<tr>
<th>Letter</th>
<th>Connection Type / Material</th>
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<tbody>
<tr>
<td>G</td>
<td>Thread G1½&quot;A / Stainless Steel 304</td>
</tr>
<tr>
<td>N</td>
<td>Thread 1½&quot; NPT / Stainless Steel 304</td>
</tr>
<tr>
<td>B</td>
<td>Flange DN80 / Stainless Steel 304</td>
</tr>
<tr>
<td>C</td>
<td>Flange DN100 / Stainless Steel 304</td>
</tr>
<tr>
<td>D</td>
<td>Flange DN125 / Stainless Steel 304</td>
</tr>
<tr>
<td>E</td>
<td>Flange DN150 / Stainless Steel 304</td>
</tr>
<tr>
<td>M</td>
<td>Flange DN80 / Universal joint</td>
</tr>
<tr>
<td>K</td>
<td>Flange DN100 / Universal joint</td>
</tr>
<tr>
<td>T</td>
<td>Flange DN125 / Universal joint</td>
</tr>
<tr>
<td>Z</td>
<td>Flange DN150 / Universal joint</td>
</tr>
<tr>
<td>Y</td>
<td>Special Custom</td>
</tr>
</tbody>
</table>

#### Antenna Type / Material

<table>
<thead>
<tr>
<th>Letter</th>
<th>Type / Material</th>
</tr>
</thead>
<tbody>
<tr>
<td>B</td>
<td>Horn Antenna Φ76mm / Stainless Steel 316L (With blow holes or dust cover)</td>
</tr>
<tr>
<td>C</td>
<td>Horn Antenna Φ96mm / Stainless Steel 316L (With blow holes or dust cover)</td>
</tr>
<tr>
<td>D</td>
<td>Horn Antenna Φ121mm / Stainless Steel 316L (With blow holes or dust cover)</td>
</tr>
<tr>
<td>Y</td>
<td>Special Custom</td>
</tr>
</tbody>
</table>

#### Seal Up / Process Temperature

<table>
<thead>
<tr>
<th>Letter</th>
<th>Seal Up / Temperature</th>
</tr>
</thead>
<tbody>
<tr>
<td>V</td>
<td>Viton / (-40~130) °C</td>
</tr>
<tr>
<td>K</td>
<td>Kalrez / (-40~230) °C</td>
</tr>
</tbody>
</table>

#### The Electronic Unit

<table>
<thead>
<tr>
<th>Model</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>3</td>
<td>(4~20) mA / 24V DC / HART two wire system</td>
</tr>
<tr>
<td>4</td>
<td>(4~20) mA / 220V AC / HART four wire system</td>
</tr>
<tr>
<td>5</td>
<td>RS485 Modbus / 6~24V / Four wire system</td>
</tr>
</tbody>
</table>

#### Outer Covering / Protection Grade

<table>
<thead>
<tr>
<th>Letter</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>L</td>
<td>Aluminum / Single chamber / IP67</td>
</tr>
<tr>
<td>H</td>
<td>Aluminum / Double chamber / IP67</td>
</tr>
<tr>
<td>G</td>
<td>Plastic / Single chamber / IP65</td>
</tr>
<tr>
<td>K</td>
<td>Stainless steel / Single chamber / IP67</td>
</tr>
</tbody>
</table>

#### Cable Line

<table>
<thead>
<tr>
<th>Letter</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>M</td>
<td>M 20x1.5</td>
</tr>
<tr>
<td>N</td>
<td>½&quot; NPT</td>
</tr>
</tbody>
</table>

#### Field Display/The Programmer

<table>
<thead>
<tr>
<th>Letter</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>A</td>
<td>With</td>
</tr>
<tr>
<td>X</td>
<td>Without</td>
</tr>
</tbody>
</table>
## SRSRLT-904

### License
- **P** Standard (Non-explosion-proof)
- **I** Intrinsically safe (Exia IIC T6 Ga)
- **G** Flameproof (Exd IIC T6 Gb)

### Process Connection / Material
- **G** Thread G1½” A / Stainless Steel 304
- **N** Thread 1½” NPT / Stainless Steel 304
- **B** Flange DN80 / Stainless Steel 304
- **C** Flange DN100 / Stainless Steel 304
- **D** Flange DN125 / Stainless Steel 304
- **E** Flange DN150 / Stainless Steel 304
- **F** Flange DN200 / Stainless Steel 304
- **H** Flange DN250 / Stainless Steel 304
- **M** Flange DN80 / Universal joint
- **K** Flange DN100 / Universal joint
- **T** Flange DN125 / Universal joint
- **Z** Flange DN150 / Universal joint
- **W** Flange DN200 / Universal joint
- **V** Flange DN250 / Universal joint
- **Y** Special Custom

### Antenna Type / Material
- **B** Parabolic antenna Φ196mm / Stainless Steel 316L
- **C** Parabolic antenna Φ242mm / Stainless Steel 316L

### Seal Up / Process Temperature
- **V** Viton / (-40~130) ℃
- **K** Kalrez / (-40~230) ℃

### The Electronic Unit
- **3** (4~20) mA / 24V DC / HART two wire system
- **4** (4~20) mA / 220V AC / HART four wire system
- **5** RS485 Modbus / 6~24V/ Four wire system

### Outer Covering / Protection Grade
- **L** Aluminum / Single chamber / IP67
- **H** Aluminum / Double chamber / IP67
- **G** Plastic / Single chamber / IP65
- **K** Stainless steel / Single chamber / IP67

### Cable Line
- **M** M 20x1.5
- **N** ½” NPT

### Field Display/The Programmer
- **A** With
- **X** Without
### SRSRLT-905

#### License
- P Standard (Non-explosion-proof)
- I Intrinsically safe (Exia IIC T6 Ga)
- G Flameproof (Exd IIC T6 Gb)

#### Process Connection / Material
- G Thread G1½"A / Stainless Steel 304
- N Thread 1½" NPT / Stainless Steel 304
- B Flange DN80 / Stainless Steel 304
- C Flange DN100 / Stainless Steel 304
- D Flange DN125 / Stainless Steel 304
- E Flange DN150 / Stainless Steel 304
- M Flange DN80 / Universal joint
- K Flange DN100 / Universal joint
- T Flange DN125 / Universal joint
- Z Flange DN150 / Universal joint
- Y Special Custom

#### Antenna Type / Material
- B Horn Antenna Φ76mm / Stainless Steel 316L (With blow holes or dust cover)
- C Horn Antenna Φ96mm / Stainless Steel 316L (With blow holes or dust cover)
- D Horn Antenna Φ121mm / Stainless Steel 316L (With blow holes or dust cover)
- Y Special Custom

#### Seal Up / Process Temperature
- V Viton / (-40~130) °C
- K Kalrez / (-40~230) °C

#### The Electronic Unit
- 3 (4~20) mA / 24V DC / HART two wire system
- 4 (4~20) mA / 220V AC / HART four wire system
- 5 RS485 Modbus / 6~24V/ Four wire system

#### Outer Covering / Protection Grade
- L Aluminum / Single chamber / IP67
- H Aluminum / Double chamber / IP67
- G Plastic / Single chamber / IP65
- K Stainless steel / Single chamber / IP67

#### Cable Line
- M M 20x1.5
- N ½" NPT

#### Field Display/The Programmer
- A With
- X Without
## SRSRLT-906

### License

<table>
<thead>
<tr>
<th>Code</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>P</td>
<td>Standard (Non-explosion-proof)</td>
</tr>
<tr>
<td>I</td>
<td>Intrinsically safe (Exia IIC T6 Ga)</td>
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<td>G</td>
<td>Flameproof (Exd IIC T6 Gb)</td>
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</tbody>
</table>

### Process Connection / Material

<table>
<thead>
<tr>
<th>Code</th>
<th>Connection / Material</th>
</tr>
</thead>
<tbody>
<tr>
<td>B</td>
<td>Flange DN80 / PTFE</td>
</tr>
<tr>
<td>C</td>
<td>Flange DN100 / PTFE</td>
</tr>
<tr>
<td>D</td>
<td>Flange DN150 / PTFE</td>
</tr>
<tr>
<td>E</td>
<td>Flange DN80 / Stainless Steel 304</td>
</tr>
<tr>
<td>F</td>
<td>Flange DN100 / Stainless Steel 304</td>
</tr>
<tr>
<td>G</td>
<td>Flange DN150 / Stainless Steel 304</td>
</tr>
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<td>Y</td>
<td>Special Custom</td>
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### Seal Up / Process Temperature

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<td>V</td>
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### The Electronic Unit

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### Outer Covering / Protection Grade

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<td>Plastic / Single chamber / IP65</td>
</tr>
<tr>
<td>K</td>
<td>Stainless steel / Single chamber / IP67</td>
</tr>
</tbody>
</table>

### Cable Line

<table>
<thead>
<tr>
<th>Code</th>
<th>Description</th>
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</thead>
<tbody>
<tr>
<td>M</td>
<td>M 20x1.5</td>
</tr>
<tr>
<td>N</td>
<td>½” NPT</td>
</tr>
</tbody>
</table>

### Field Display/The Programmer

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</table>