



## **Air Cooling Jacket for AS2100 Laser Sensors**

**AQ2100001 Air Cooling Jacket for Standard AS2100 Sensor**

**AQ2100002 Air cooling Jacket for AS2100 EtherNet/IP™ Sensor**

### **Manual**

V1.2

05/11/22



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## 1 General Information

- **AQ2100001 Air Cooling Jacket for Standard AS2100 Sensor:** This air-cooling jacket can be used with our AS2100 sensor that is equipped with our standard interfaces.
- **AQ2100002 Air cooling Jacket for AS2100 EtherNet/IP™ Sensors:** This air-cooling Jacket can be used with our AS2100 equipped with our EtherNet/IP™ back cover.
- The AS2100 Laser Sensor, Air-cleaner, Air-dryer, Air-filter, Pressure reduction and air regulator are not included.

## 2 Specification

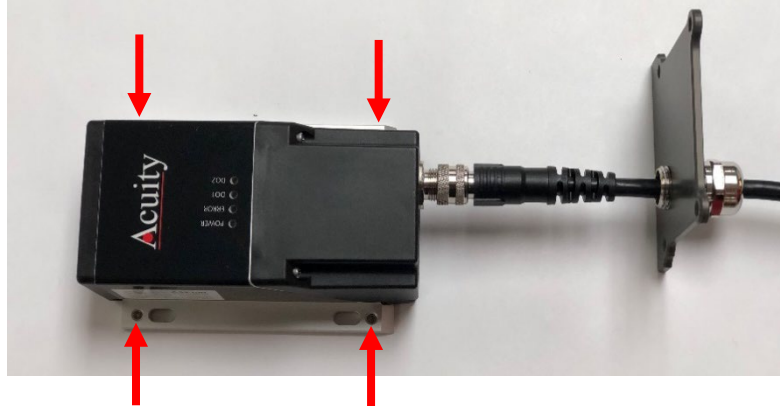
Outer Tube Diameter:	8mm
Air nipple size:	PT 1/8"
Cable Gland:	M16 – Standard Interface M32- Industrial Ethernet Interface
Mounting:	Mounting slots for M5/M4 screws
Size:	width: 85mm x length: 290mm x height: 151mm
Weight approx.:	1.405kg
Material	Housing body: Aluminum Hard anodizing
Not included:	AS2100 laser sensor, air-cleaner, air-dryer, air-filter, pressure reduction, and air regulator are not included
Compatible to:	AS2100 with standard interfaces & Ethernet/IP

### 3 Assembly

#### 3.1) Assembly of the air-cooling jacket for standard AS2100



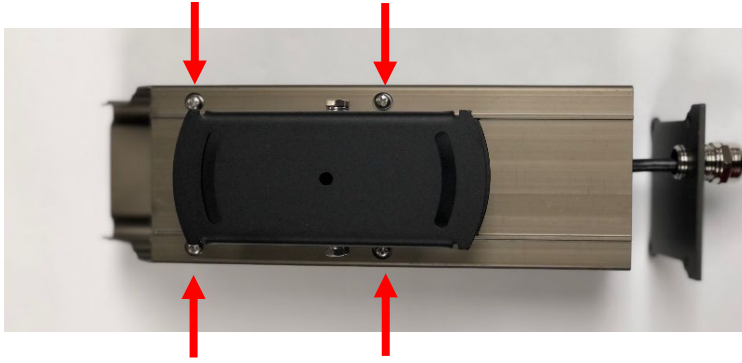
First, insert the cables into the cable gland of the jacket. Then connect the cable to the sensor before you assemble the laser sensor into the air-cooling jacket.



Remove the four hexagonal socket set screws. You need these tapped holes to mount the sensor into the jacket.



Slide the wired sensor into the air jacket.



Set the four screws and attach the sensor to the housing. The screws are provided.

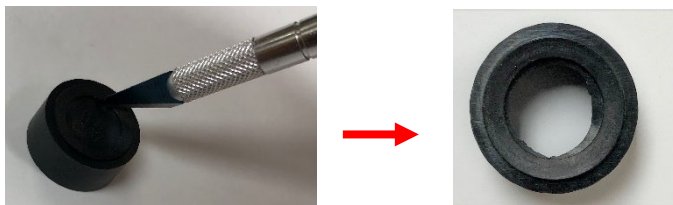


When you close the rear cover of the air-cooling jacket, installation is easier without bending the cable inside the enclosure.

Set the four screws and attach the rear cover.

Finally, tighten the metallic cable gland.

### 3.2) Assembly of the air-cooling jacket for industrial EtherNet/IP™ interfaces



First, cut a hole in the rubber seal which you can find in the cable gland.



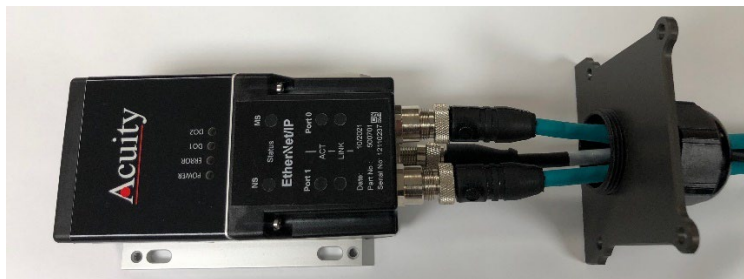
Insert the cables into the cable gland, then insert them into the rubber seal.



Insert the cables into the cable gland of the rear cover. Then push the rubber seal into the cable gland.



Remove the four hexagonal socket set screws. You need these tapped holes to mount the sensor into the jacket.



Connect the power and ethernet cables to the sensor

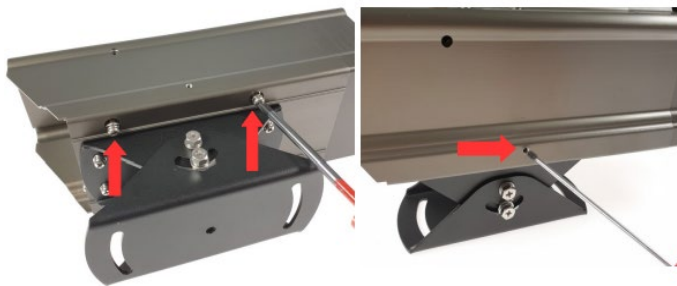


Slide the wired sensor into the air-cooling jacket.



Fasten the cable gland after adjusting an appropriate cable length to be inserted.

Close the rear cover of the jacket and fasten the four screws (M4 x 50)



To align/fix the device, you have 2 options:

Option 1: Set the four screws and attach the sensor to the housing.

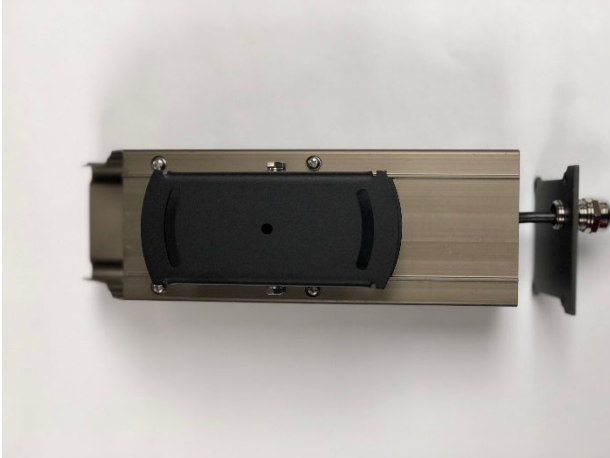
Option 2: Fix the sensor after tightening the screws on both sides of the jacket.

## 4 Base Alignment



The tilting can be adjusted with the four screws on the two sides of the air jacket.

We recommend manually supporting the housing for alignment to prevent damaging of the product because the laser's position in the housing is positioned towards the front.

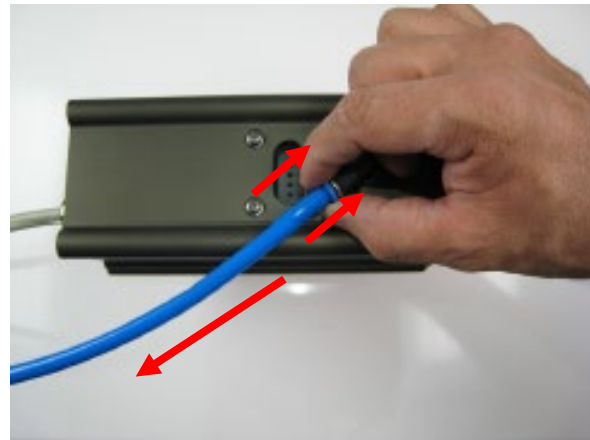


The rotation can be adjusted with the main fixing screws.

## 5 Mounting Air Line



Connect the 8mm tube into the quick coupling



Remove the tube from quick coupling.



## 5.1 LED Status

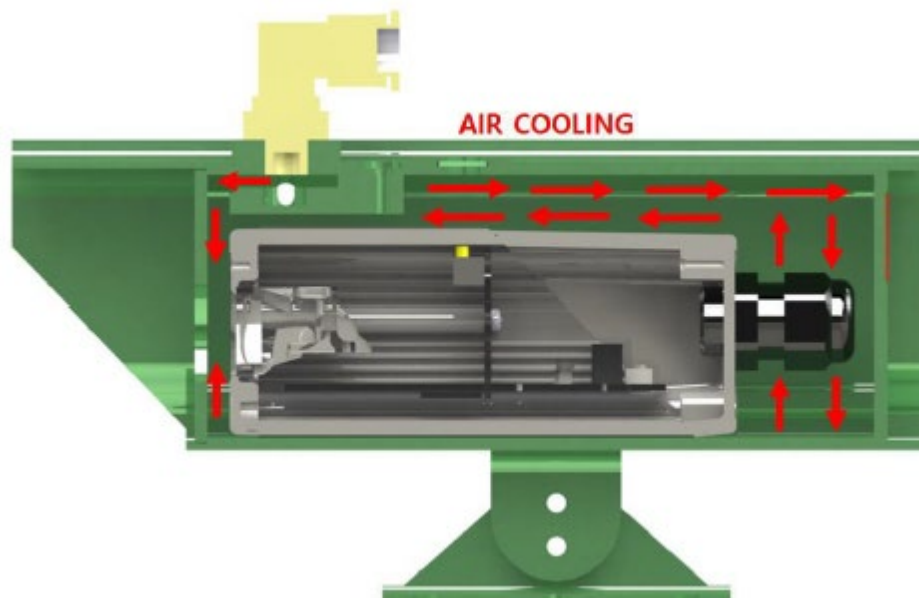
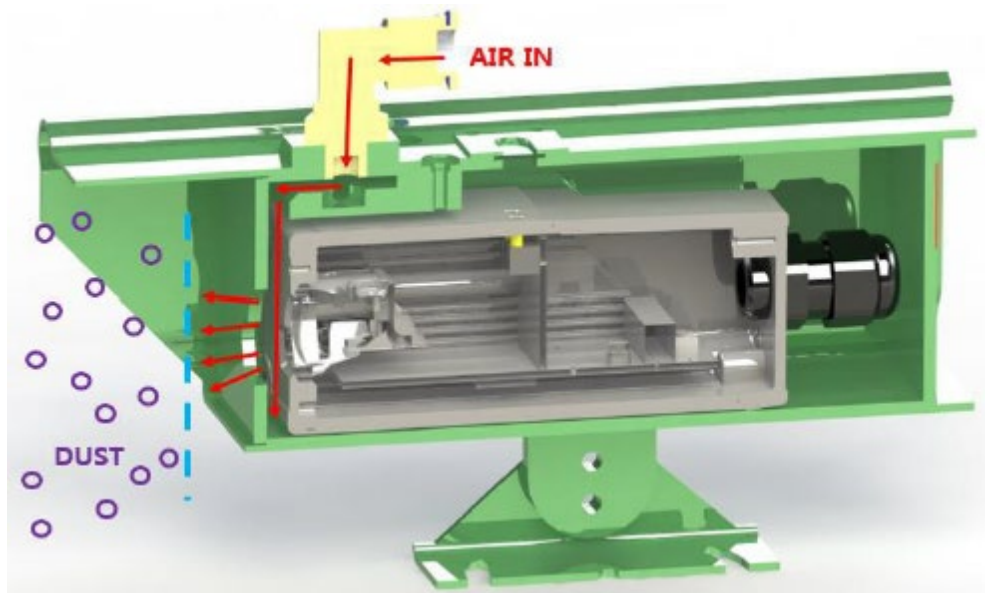


The user can see the sensor's operating status through the clear glasses on the housing top without pulling the laser sensor out. This makes it convenient to do maintenance or monitoring device on site.

## 6 Pictures



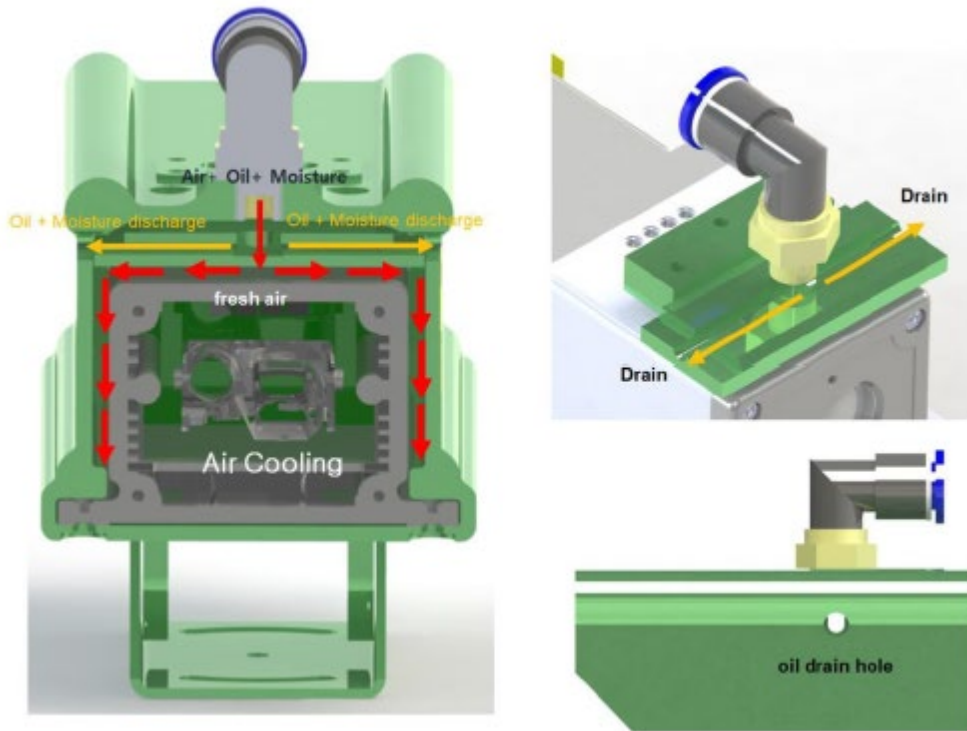
## 7 Air Cooling Jacket Structure



## 7.1 Air Cooling

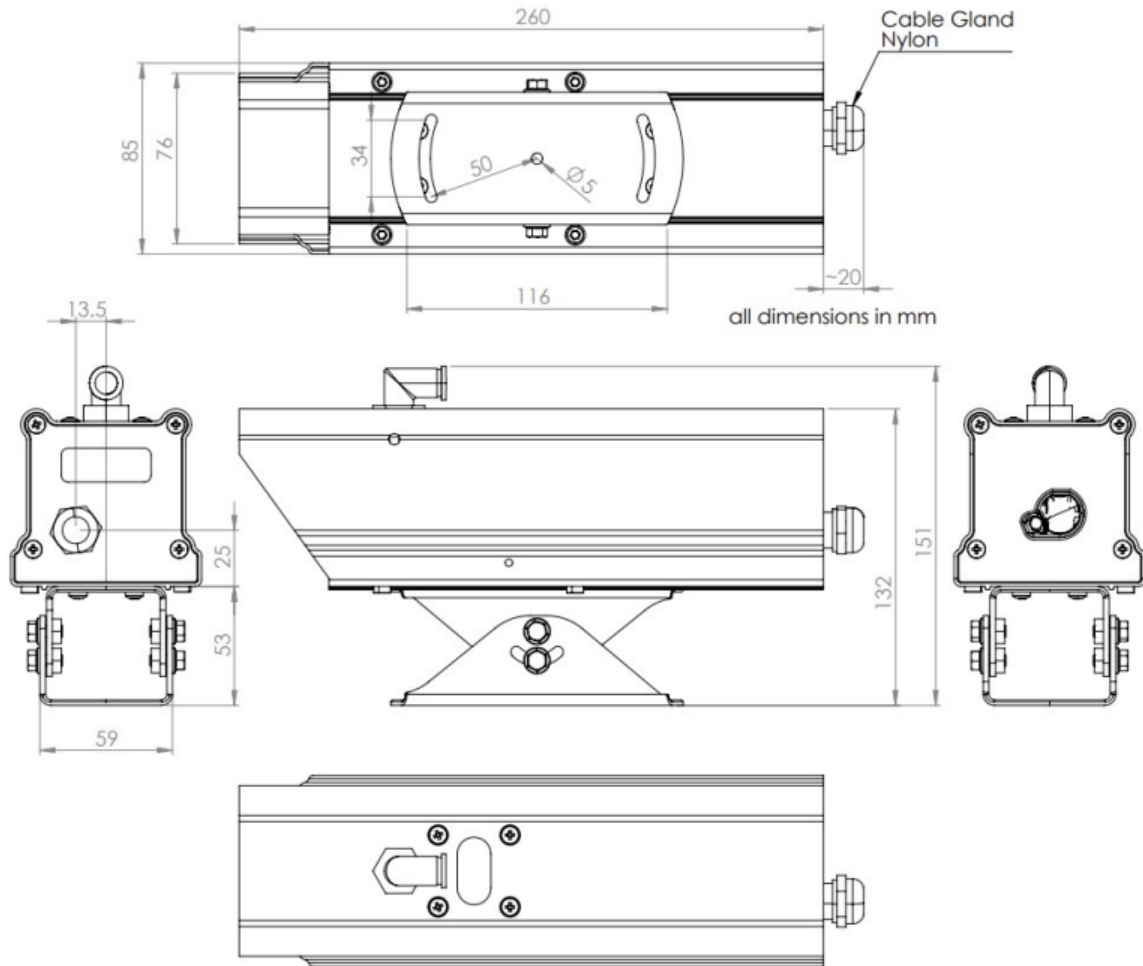
Generally, the air provided must be clean, oil- and moisture free. Please use all the necessary equipment.

The air guide block has a jaw trough which oil and moisture are discharged through drainage channels. Only fresh air is left inside the housing in order to perform both cooling and air purging functions.



## 8 Drawing

### 8.1 Drawing of AQ2100001 Air Cooling Jacket for Standard AS2100 Sensor



8.2 Drawing of AQ2100002 Air Cooling Jacket for AS2100 EtherNet/IP™ Sensor

