1. Unpacking the physical sensor

Inspect the chassis to see whether the physical sensor has been damaged in any way.
If the physical sensor appears to be damaged, please contact Nozomi Networks support at: **support@nozominetworks.com**.

Box contents:

- Nozomi Networks NS1R-RS1R Physical Sensor
- External PSU
- Spare PSU connector
- 1x grounding cable
- 1x USB to RJ45 console cable

2. Setup precautions and considerations

Please follow the *General Safety Guidelines* included in the box to prevent potential property damage, personal injury or even death.

Furthermore, observe the following rules:

- Before performing any of the following procedures, ensure that power has been removed from the AC or DC circuit.
- Read the installation instructions before you connect the physical sensor to its power source.
- To prevent the system from overheating, do not operate it in an area that exceeds the maximum recommended ambient temperature:

Operating Environment	Temperature: -40 – 70°C (-40 – 158°F) Humidity: 5 – 95 % RH
Storage Environment	Temperature: -40 – 85°C (-40 – 185°F) Humidity: 5 – 95 % RH

⚠ **WARNING: This equipment has been tested and found to comply with the limits for a Class A device. If this equipment is used in a residential environment, it may cause radio interference. In this case, the user may be required to take appropriate measures.**

3. Unbox the physical sensor

Unbox the physical sensor. Make sure that your DIN rail is properly installed by checking its screws.

Release Latch
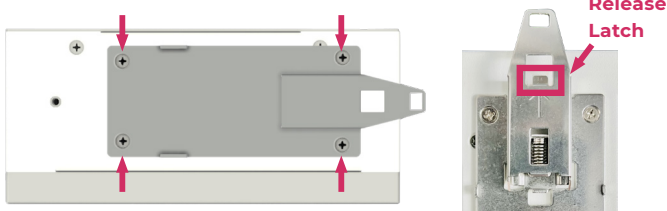
Clip the physical sensor onto the DIN rail, keeping at least the minimum clearance from the other devices:

- 10mm per system when operating temp. is between +25°C and +40°C
- 100mm if operating temp. is between +40°C and +70°C

⚠ **PLEASE NOTE: DIN mounting cursor has a spring lock mechanism that keeps it in open position when extended. To release it, press the release latch with a pen, stick, screwdriver.**

4. Grounding

A reliable ground must be maintained at all times. To ensure this, the rack itself should be grounded and the physical sensor chassis should be connected for grounding to the rack via the provided physical sensor grounding cable.
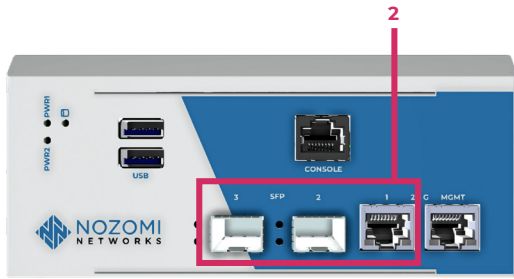

Grounding screw
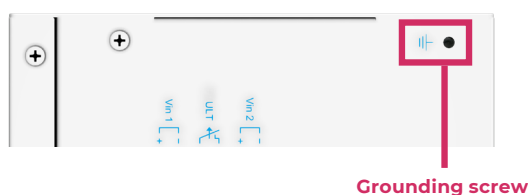
5. Connecting management port

Connect the management port (MGMT) (1) to the designated network switch or equipment.

6. Connect monitoring ports

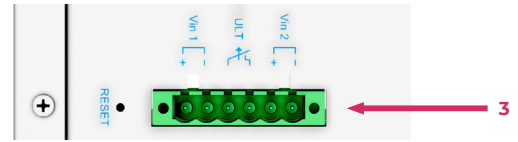Connect monitoring ports (2) to the proper network mirror sources as needed.

7. Connect the power cables

Connect the green power connector to the physical sensor, then the power supply output to a power outlet.

> ⚠️ **WARNING: This physical sensor has no power switch. As soon as power is detected, the physical sensor will boot up.**
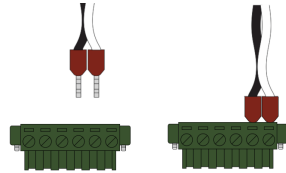
8. Assemble power cable connector (optional)

The connector of the PSU is already assembled. If you need to change or to add another PSU, screw the connector in pin 1-2 (to change) and 5-6 (to add).
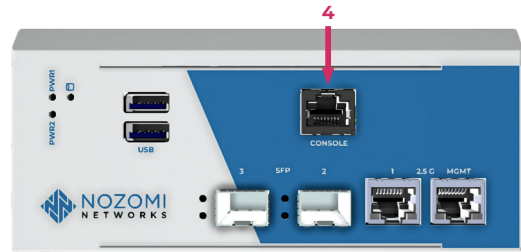
> ⚠️
>
> **PLEASE NOTE: Cable colors are reversed compared to the R50 physical Sensor.**

9. Connect Serial Console

Attach to the serial console port(4) using the RJ45 to USB cable provided:

Connect to the serial console using 9600 bauds and no parity bit set.

11. Documentation

Continue the setup using *User Manual, Chapter 2: Installation.*

You can find the manual at:

https://support.nozominetworks.com/manuals

> ⚠️ *You will need a Nozomi Networks support account to view the manual.*

You can request access credentials at:

https://www.nozominetworks.com/support/

NS1R-RS1R Physical Sensor