# Mod. SSA

## Road Surface Status Sensor
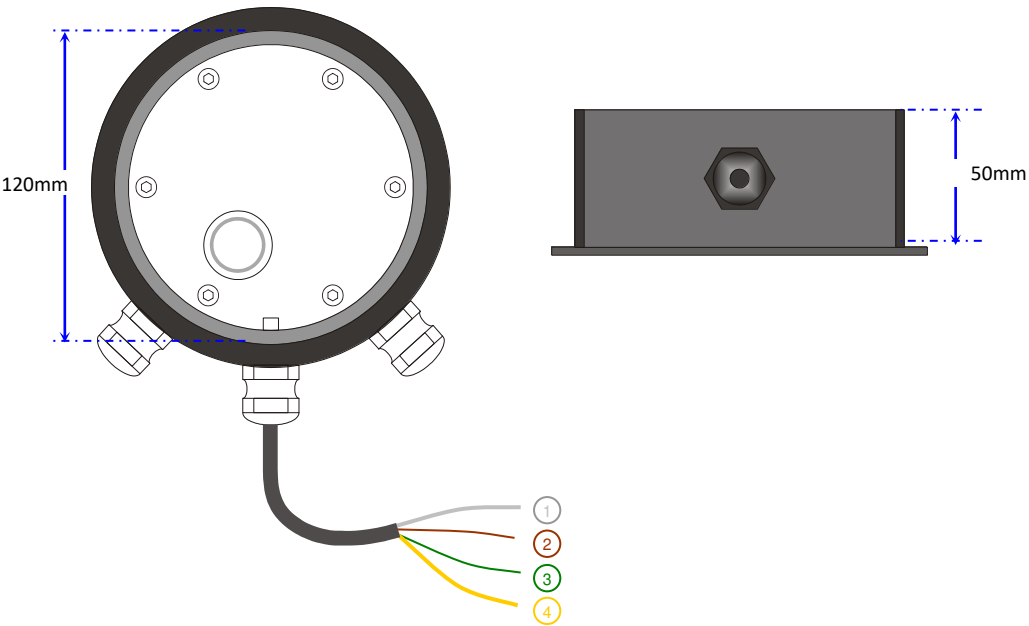
## Highlighted specs

- Sensor for the measurement of road surface status with radar technology
- Limited dimensions and weight
- Can be repositioned for an easy road maintenance
- Very low power consumption
- According to CE norms

Carriageable sensor for measuring the **physical and chemical road surface features**, allowing to know the state of the road and therefore start the cleaning actions or prevention, for example against the ice formation or snow/hail build-up. The transducer allows to acquire **various types of information** as the temperature, the road surface status between dry / wet / moist / ice / snow / salt-residue and also provides an evaluation on critical humidity. **Easily removable for road maintenance.** Available with RS485 output.

| | |
|---|---|
| **Typical range** | -30 ÷ +70°C, ±0,5°C, water film 0÷4mm ± 0.1mm |
| **Sensibity and Resolution** | 0,1mm |
| **Freezing point curves** | 1÷10 (NaCl, CaCl, MgCl) from -20 ÷ 0°C, max error ±1°C |
| **Accuracy** | 0.2÷0.5°C (Temperature), 0,1 mm + 20 % of measured film for water |
| **Ability to recognize:** | Temperature, dry, wet, moist, ice, snow, salt-residue |
| **Protection degree** | IP68 |
| **Output signal** | Digital RS485 |
| **Working conditions** | -40°C ÷ +70°C; 0 ÷ 100%Rh |
| **Material** | Metal housing and carriageable reinforced ABS body sensor |
| **Power supply and consumption** | 12÷24Vdc, (<8mA@12Vdc) |
| **Dimension** | 120 x 50mm |
| **Weight** | 0,8 Kg |

## Size and connections

| Pin | Wire | SSA |
|---|---|---|
| 1 | White | 12÷24Vdc |
| 2 | Brown | Gnd |
| 3 | Green | RS485-A |
| 4 | Yellow | RS485-B |



## Order Code

| | | | | |
|---|---|---|---|---|
| **Sensor** | Road Surface Status Sensor | **SSA** | | |
| **Output** | RS485 / Modbus | | C | |
| **Accessories** | CS05 – Cable 5m sensor-datalogger | | | 05 |
| | CS10 – Cable 10m sensor-datalogger | | | 10 |
| | CSxx – Cable xx* m length, sensor-datalogger – to be specified at order | | | xx |

*specify the length for no standard measures          *example of order code*     **SSA     C     10**