



New product version of the known Lufft VS20 visibility sensor with a measurement range of 10...20'000m, easy calibration functionality, sea waterproof housing and (active) spider defense

- **Parameters measured**

Visibility (measuring range 10 ... 20'000 m, resolution 1m)

- **Measurement technology**

45° forward light scattering

- **Product highlights**

suitable for extreme ambient conditions, active spider defense, compatible interfaces

- **Interfaces**

RS-485, analogue output

- **Article number**

8366.U90

The VS20k visibility sensor measures visibility up to 20'000 m, ideal for road traffic applications on motorways, highways or bridges. A calibration device is available (optional). The VS20k-UMB is configured via the software UMB Config Tool:

- Reading / Changing of the current configuration,
- calibration,
- polling of the current measurement values,
- the software allows configurations to be loaded and stored.

The measurement data is available for further processing in the form of the standard

protocol Lufft UMB.

ASD = Active Spider Defense: The built-in vibrating motor ensures at irregular intervals that the VS2k visibility sensor is not so prone to spiders. The construction of VS2k also reduces the frequency of maintenance.

| General | |
|------------------|---|
| Dimensions | 508,5x230x85mm |
| Weight | Approx. 4kg |
| Protection class | III (SELV) |
| Protection type | IP66 |
| Interfaces | RS485 (2-wire, half duplex); Analogue output (4 - 20mA) |
| Value update | 1/minute |

| Storage conditions | |
|--------------------------------|--|
| Admissible storage temperature | -40...70°C |
| Operating rel. humidity | 0...100% RH (non condensing), 0 ... 98% (inside packaging) |

| Operating conditions | |
|-------------------------|-------------|
| Operating temperature | -40...60°C |
| Operating rel. humidity | 0...100% RH |

| Electrical data | |
|---|--|
| Power supply voltage | 20 to 30 V DC; typical 24 V DC; internally galvanically isolated |
| Inrush current at device startup and during normal operation when Active Spider Defense (ASD) is starting to run* | at 20 V DC: max. 2.5 A at 30 V DC: max. 4 A |
| Static current with running ASD with active RS-485 and current loop* | at 20 V DC: max. 600 mA at 30 V DC: max. 850 mA |
| Static current without active ASD with active RS-485 and current loop | at 20 V DC: max. 200 mA at 30 V DC: max. 150 mA |

| Visibility | |
|----------------------|------------------------|
| Principle | 42° forward scattering |
| Measuring range | 10 ... 20.000 m |
| Measuring resolution | 1 m |
| Unit | m |
| Accuracy | ±10% visibility |