

STS-03 Surface temperature sensor

Basic characteristic

- ▲ STS-03 is a surface temperature sensor.
- ▲ The design of STS-03 eliminates the influences from ambient environment.



Benefits

- ▲ Temperature reading not influenced from ambient environment.
- ▲ Direct mountable.
- ▲ Ruggedized housing applicable in harsh environment.

Applications

- ▲ Surface temperature measurement
- ▲ Temperature compensation

Performance properties

| | |
|--|-------------------------|
| Temperature range | -20°C up to +60°C |
| Temperature accuracy (guaranteed) ¹⁾ | 0,80% FS ³⁾ |
| Temperature accuracy (typical) ¹⁾ | 0,65% FS ³⁾ |
| Temperature precision (guaranteed) ²⁾ | ±0,30% FS ³⁾ |
| Temperature precision (typical) ²⁾ | ±0,20% FS ³⁾ |
| Temperature resolution | 0,1°C |
| Ingress Protection rating | IP 66 |

¹⁾ Accuracy is established for each individual sensor under laboratory conditions and it includes hysteresis, non-linearity, and repeatability of the sensor.

²⁾ Precision is established on a batch basis and it includes hysteresis, non-linearity, repeatability and reproducibility of the sensor.

³⁾ FS: full scale range

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Physical properties

| | |
|--|-----------------------------------|
| Housing material | Stainless steel SS316L and copper |
| Dimensions (without cable) ¹⁾ | Ø34mm x 9.5mm |
| Weight (without cable) | 100g |
| Cable type | 3mm Dyneema tubing |
| Cable length ²⁾ | 1mtr |
| Cable Bend Radius (dynamic) | 30mm |
| Cable Bend Radius (static) | 15mm |
| Connector type ³⁾ | FC/APC |
| Mounting method | Direct surface mounting |

¹⁾ For further dimensions details see the product drawing

²⁾ Cable length is extendable on request

³⁾ Other connector types available on request

Packaging

Cardboard box with dimensions: 370x290x45mm

Quality statement

STS-03 sensor is compliant with IEC 61757:2018
 All sensors are 100% tested and calibrated at SYLEX.
 Sensor is manufactured according to ISO 9001:2008 and ISO 14001:2004.

Optional accessories

- ▲ **WCP-01 Watertight connector protection** – used for FC/APC connector protection during the installation against dust and water – IP67 rated.
- ▲ **LCP-03 Longer cable pigtails** – used to extend the cable lengths from 1mtr up to 20mtr.

For more information contact our sales team at sales@sylex.sk

* Specifications are subject to change without notice