# TRANSCLINIC BKE 1K5.4

**PV Solar String Monitoring System (PV Solar SMS)**

The PV Solar String Monitoring System is a new device developed to monitor currents and voltage at string level inside a combiner box.

This new device is able to monitor up to 32 strings and to measure up to 50A per string.

It can be directly powered by the solar array while providing reliable information and data.

In order to have a flexible design that can fit any customer requirements, the Solar String Monitoring System (Solar SMS) has been developed as a modular system.

It consists of:

- The Master Module, that includes the power supply and communication infrastructure (RS-485) to coordinate data gathering from sensors.
- The Slave Modules, that collect current data with the usage of hall effect sensors. These modules can mount 8 or 12 sensors each with 25A and 50A sensors respectively.

Solar SMS

## General ordering data

| | |
|---|---|
| Version | Photovoltaics, Power supply unit, Monitoring components, 1500 V |
| Order No. | 7791400879 |
| Type | TRANSCLINIC BKE 1K5.4 |
| GTIN (EAN) | 8430243325974 |
| Qty. | 1 items |

## TRANSCLINIC BKE 1K5.4

## Technical data

### Approvals

| | |
|---|---|
| ROHS | Conform |

### Dimensions and weights

| | | | |
|---|---|---|---|
| Depth | 62 mm | Depth (inches) | 2.4409 inch |
| Height | 88 mm | Height (inches) | 3.4646 inch |
| Width | 90 mm | Width (inches) | 3.5433 inch |
| Net weight | 240 g | | |

### Temperatures

| | | | |
|---|---|---|---|
| Ambient temperature | -20 °C...70 °C | Operating temperature | |
| Continuous operating temp., min. | -20 °C | Continuous operating temp., max. | 70 °C |

### Environmental Product Compliance

| | |
|---|---|
| RoHS Compliance Status | Compliant with exemption |
| RoHS Exemption (if applicable/known) | 6c, 7a, 7cl |
| REACH SVHC | Lead 7439-92-1 |
| SCIP | 1df4a21b-8f30-4cfb-88b6-231429b3afe6 |

### Technical data

| | | | |
|---|---|---|---|
| Standards | IEC 61000-4-5 Surge: Power: 2 kV; Signal: 1 kV, IEC 61000-4-4:2012, IEC 61000-4-2 | Pollution severity | 2 |
| Supply voltage | 300 V DC - 1500 V DC | | |

### Classifications

| | | | |
|---|---|---|---|
| ETIM 6.0 | EC002928 | ETIM 7.0 | EC002928 |
| ETIM 8.0 | EC002928 | ETIM 9.0 | EC002928 |
| ETIM 10.0 | EC002928 | ECLASS 9.0 | 22-57-92-03 |
| ECLASS 9.1 | 22-57-04-90 | ECLASS 10.0 | 22-57-04-90 |
| ECLASS 11.0 | 22-57-02-92 | ECLASS 12.0 | 22-57-02-92 |
| ECLASS 13.0 | 22-57-02-92 | ECLASS 14.0 | 22-57-02-92 |
| ECLASS 15.0 | 22-57-02-92 | | |