# TCT

## The Telecontrol Transformer

## Datasheet




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**Version 4.0**

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MADE IN GERMANY

ISO 27001 GUTcert · AFNOR Group

Qualitätsmanagement ISO 9001 www.dekra-siegel.de DEKRA zertifiziert

## Power Supply

| | |
|---|---|
| Voltage | $V_{IN}$: 24 V DC ($V_{IN}$: 9 - 48 V DC, reverse polarity protected) |
| Current consumption | Max. 1.2 A (typ. 650 mA) |
| Ground / protective earth | The ground (GND) is galvanically connected directly to the protective earth (PE) |
| Line cross-section | 0.129 - 3.31 mm² (solid or stranded wire) |

## Interfaces

| | |
|---|---|
| Internal DCE<br>interface to the gateway | • RS-232 (RxD, TxD, Gnd) DCE<br>• DB9 female connector<br>• Baud-rate max. 57.600 baud<br>• Asynchronous data format |
| External DTE<br>interface to the communication device | • RS232 (RxD, TxD, RTS, CTS, Gnd) DTE<br>• DB9 male connector<br>• Baud-rate up to 2400 baud (higher baud rates upon request)<br>• All four in-puts/outputs (RxD, TxD, RTS, CTS) are optically isolated<br>• Insulation voltage 2 kV DC |

## Diagnostics (Status LEDs)

- LED S: Send indicator (green)
- LED P: Operation indicator (green)
- LED R: Receive indicator (green)
- LED E: Error indicator (red)

## Additional Functions and Features

| | |
|---|---|
| Overvoltage protection | The power supply and all interfaces are ESD, surge, and burst protected (see EMC) |

## Housing

| | |
|---|---|
| Body material | Plastic chassis |
| Mounting | 35 mm DIN-Rail |
| IP Code | IP30 |
| Rotating parts | None |
| Dimensions (W x H x D) | approx. 22.6 mm x 105.5 mm x 118.0 mm |
| Weight | approx. 0.13 kg |


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## Operating Environment

| | |
|---|---|
| Operating temperature | -20 °C to 60 °C |
| Storage temperature | -40 °C to 85 °C |
| Relative humidity | 5% to 90% not condensing |

## Approval, Standards and Conformity

| | |
|---|---|
| Conformity | CE, UKCA<br>RoHS, REACH, WEEE |
| Standards | EN IEC 61000-6-2:2019<br>EN IEC 61000-6-4:2019 |

## Electromagnetic Compatibility (EMC – Emission / Immunity Requirements)

| | |
|---|---|
| EN 55016-2-1<br>CISPR 16-2-1 | Conducted Emission; power supply lines (150 kHz - 30 MHz) |
| EN 55016-2-3<br>CISPR 16-2-3 | Radiated Emission (30 MHz - 1 GHz) |
| IEC 61000-4-2 | Electrostatic discharge (ESD) |
| IEC 61000-4-3 | Radiated, radio-frequency, electromagnetic field |
| IEC 61000-4-4 | Electrical fast transient (Burst) |
| IEC 61000-4-5 | Surge on power supply lines |
| IEC 61000-4-6 | Induced radio-frequency fields |
| IEC 61000-4-8 | Power frequency magnetic field |


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