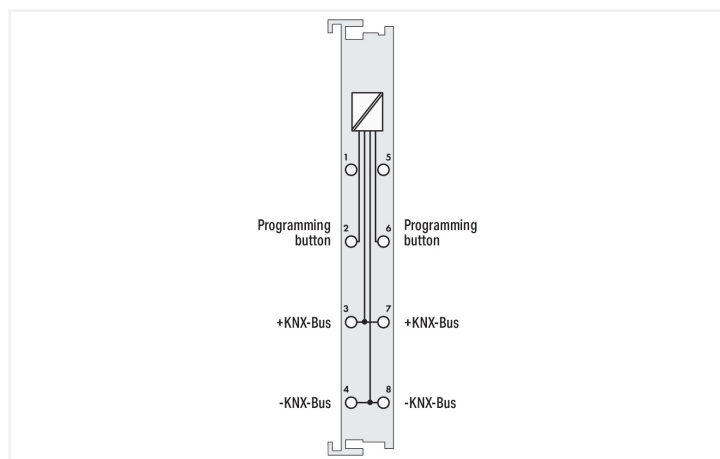
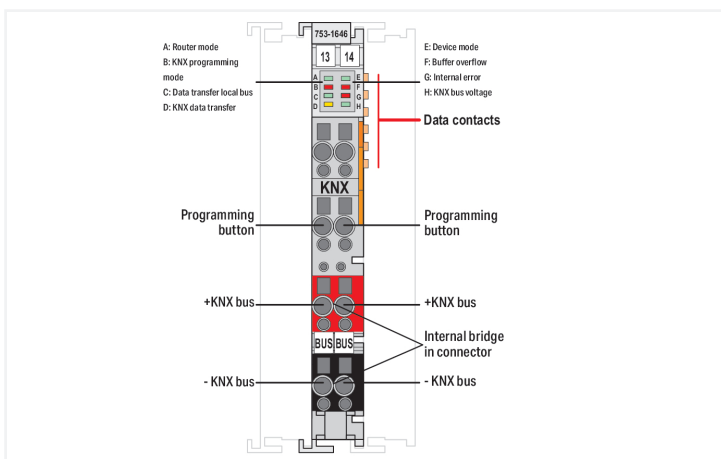


Similar to illustration



The 753-1646 KNX TP Secure Interface I/O module provides connectivity to a KNX/EIB/TP1 network.

The module is compatible with the 753-646 KNX/EIB/TP Interface. However, the 753-1646 KNX TP Secure Interface does not support router or transparent modes.

In a KNX network, the module functions as a standard KNX device.

The KNX module supports up to 1000 freely configurable communication objects with any DPTs, 2000 group addresses and 2000 associations. In the ETS, data point types (DPT) up to 14 bytes long can be assigned to each KNX communication object.

When operating as a KNX secure device, encrypted communication (KNX Data Secure) is possible for all KNX communication objects.

The application is programmed via CODESYS 3.x.

ETS 6 is supported.

WAGO's 753 Series Pluggable Connector with internally bridged contacts (3/7 and 4/8) is included with the delivery.

An external KNX power supply is required to operate the KNX module.

### Technical data

|   |  |
|---|--|
| Communications                          | KNX/TP1-256<br>S-Mode<br>KNX Data Secure   |
| Device-specific                         | Number of communication objects: 1000; Number of group addresses: 2000; Number of associations: 2000; Supported ETS versions: from ETS 6 onwards |
| Current consumption, typ.               | 7.5 mA (KNX)   |
| Transmission rate                       | 9.6 kBd (KNX)  |
| Data width                              | 24 bytes   |
| Supply voltage                          | KNX: via KNX power supply unit   |
| Supply voltage (system)                 | 5 VDC; via data contacts   |
| Current consumption (5 V system supply) | 65 mA  |
| Isolation                               | 3.51 kV (rms)  |
| Indicators                              | 8 x LED  |

### Connection Data

|                                      |  |
|--------------------------------------|--|
| Connection technology: I/O           | 8 x CAGE CLAMP®                              |
| Connectable conductor materials      | Copper                                       |
| Connection type                      | Inputs/outputs                               |
| Solid conductor                      | 0.08 ... 2.5 mm <sup>2</sup> / 28 ... 14 AWG |
| Fine-stranded conductor              | 0.08 ... 2.5 mm <sup>2</sup> / 28 ... 14 AWG |
| Strip length                         | 9 ... 10 mm / 0.35 ... 0.39 inches           |
| Connection point (other) designation | Programming button connection; bridge 2/6    |

### Physical data

|                                   |                        |
|-----------------------------------|------------------------|
| Width                             | 12 mm / 0.472 inches   |
| Height                            | 100 mm / 3.937 inches  |
| Depth                             | 69 mm / 2.717 inches   |
| Depth from upper-edge of DIN-rail | 61.8 mm / 2.433 inches |

### Mechanical data

|                     |             |
|---------------------|-------------|
| Mounting type       | DIN-35 rail |
| Pluggable connector | pluggable   |

### Material data

|                    |                              |
|--------------------|------------------------------|
| Housing material   | Polycarbonate; polyamide 6.6 |
| Fire load          | 0.792 MJ                     |
| Weight             | 52.2 g                       |
| Conformity marking | CE                           |

### Environmental requirements

|  |  |
|--|--|
| Ambient temperature (operation)          | 0 ... +55 °C   |
| Ambient temperature (storage)            | -40 ... +85 °C   |
| Protection type                          | IP20   |
| Pollution degree                         | 2 per IEC 61131-2  |
| Operating altitude                       | 0 ... 2000 m / 0 ... 6562 ft   |
| Mounting position                        | Horizontal left, horizontal right, horizontal top, horizontal bottom, vertical top and vertical bottom |
| Relative humidity (without condensation) | 95 %   |
| Vibration resistance                     | 4g per IEC 60068-2-6   |
| Shock resistance                         | 15g per IEC 60068-2-27   |
| EMC immunity to interference             | per EN 61000-6-2, marine applications  |
| EMC emission of interference             | per EN 61000-6-3, marine applications  |
| Exposure to pollutants                   | per IEC 60068-2-42 and IEC 60068-2-43  |

**Environmental requirements**

|  |        |
|--|--------|
| Permissible H <sub>2</sub> S contaminant concentration at a relative humidity 75 % | 10 ppm |
| Permissible SO <sub>2</sub> contaminant concentration at a relative humidity 75 %  | 25 ppm |

**Commercial data**

|                       |               |
|-----------------------|---------------|
| PU (SPU)              | 1 pcs         |
| Packaging type        | Box           |
| Country of origin     | DE            |
| GTIN                  | 4066966699210 |
| Customs tariff number | 85389099990   |

**Product Classification**

|           |                      |
|-----------|----------------------|
| UNSPSC    | 39121334             |
| ETIM 9.0  | EC001604             |
| ETIM 10.0 | EC001604             |
| ECCN      | NO US CLASSIFICATION |

**Environmental Product Compliance**

|                        |                                   |
|------------------------|-----------------------------------|
| RoHS Compliance Status | Compliant,With Exemption          |
| RoHS Exemption         | 6(c)<br>7(a)<br>7(c)-I<br>7(c)-II |

**Approvals / Certificates**

**Declarations of conformity and manufacturer's declarations**

| Approval  | Standard | Certificate Name |
|---|----------|------------------|
| EU-Declaration of Confor-<br>mity<br>WAGO GmbH & Co. KG | -        | -                |
| UK-Declaration of Confor-<br>mity<br>WAGO GmbH & Co. KG | -        | -                |

**Downloads**

**Environmental Product Compliance**

|  |                   |
|--|-------------------|
| <b>Compliance Search</b>                     |                   |
| Environmental Product<br>Compliance 753-1646 | <a href="#">↓</a> |

### Documentation

| Manual                                   |  |     |                              |
|--|--|-----|------------------------------|
| Product manual KNX TP SECURE Interface   | 3771916683   3   en-US   2025-02-28 10:46   11.03.2025 | pdf | 5140.91 KB <a href="#">↓</a> |
| Manual WAGO KNX DCA (Device Control App) | 1.0.0   19.03.2025                                     | pdf | 4696.07 KB <a href="#">↓</a> |

| Bid Text |            |      |                            |
|----------|------------|------|----------------------------|
| 753-1646 | 10.04.2025 | docx | 34.01 KB <a href="#">↓</a> |
| 753-1646 | 10.04.2025 | x81  | 5.38 KB <a href="#">↓</a>  |

### Application Notes

| Application note, other                        |                    |     |                              |
|--|--------------------|-----|------------------------------|
| Application Note KNX Secure Interface 753-1646 | 1.0.0   12.03.2025 | pdf | 3755.27 KB <a href="#">↓</a> |

### Engineering-Software

| Configuration and Commissioning Software |                       |         |                                |
|--|-----------------------|---------|--------------------------------|
| WAGO Devices and Libraries 2.0.6.10      | 2.0.6.10   12.03.2025 | package | 260183.55 KB <a href="#">↓</a> |

Subject to changes. Please also observe the further product documentation!

Current addresses can be found at: [www.wago.com](https://www.wago.com)