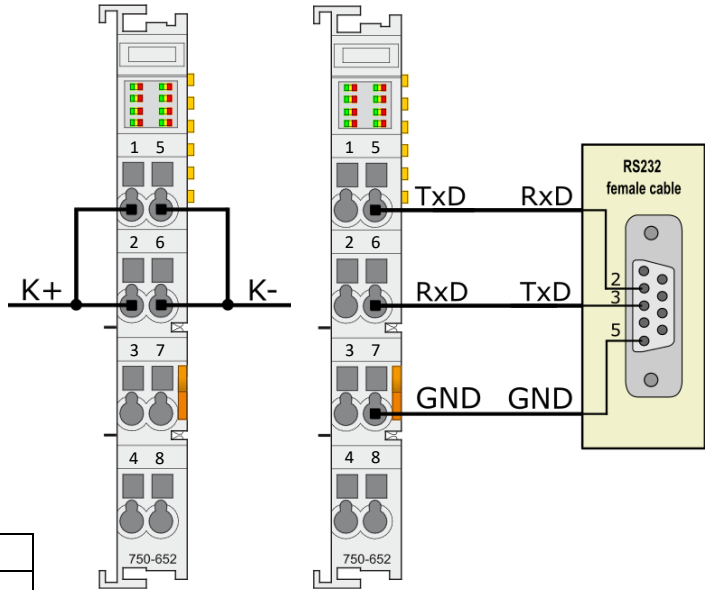
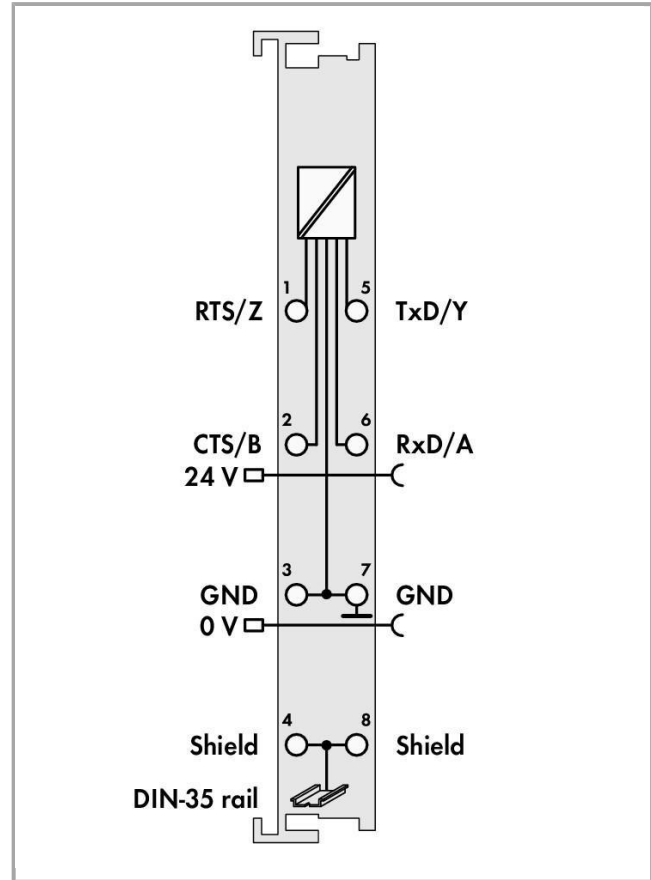
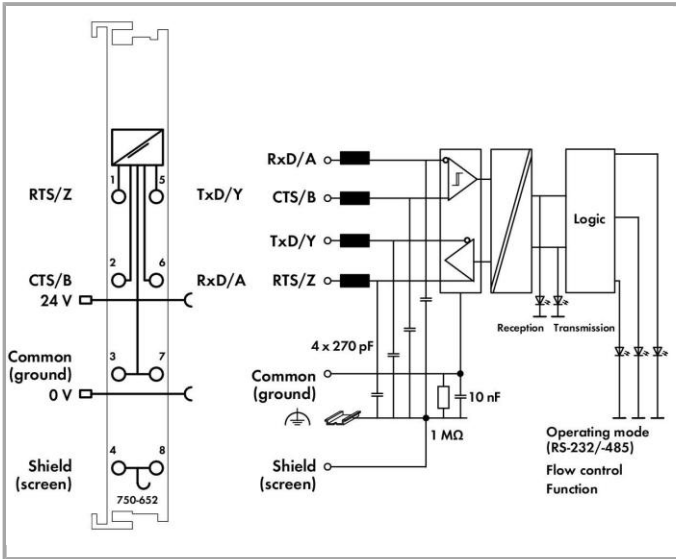


### RS-485

### RS-232



| n.  | label         | notes                   |
|-----|---------------|-------------------------|
| 1   | RTS<br>Z/TxD+ | RS-232<br>RS-485/RS-422 |
| 2   | CTS<br>B/RxD+ | RS-232<br>RS-485/RS-422 |
| 5   | TxD<br>Y/TxD- | RS-232<br>RS-485/RS-422 |
| 6   | RxD<br>A/RxD- | RS-232<br>RS-485/RS-422 |
| 3/7 | GND           |                         |
| 4/8 | shield        |                         |



### Item description

The serial interface module connects RS-485/422 or RS-232 C interface devices to the WAGO-I/O-SYSTEM 750. It also provides gateways between the serial interface and the fieldbus systems supported by the WAGO-I/O SYSTEM 750. No higher protocol level is required by the module. Communication to the associated fieldbus master is completely transparent. This provides for a broader application scope for the serial interface module. If required, communication protocols can be configured via fieldbus master.

The 2560 byte input buffer provides for high data baud rates. At lower baud rates, the data received in lower priority tasks is evaluated without data loss.

The 512 byte output buffer provides fast transmission of larger data strings.

The module can be configured via WAGO-I/O-CHECK or GSD files. Flexible baud rate and data width selection provides perfect adaptation to the respective application.

### Note:

Compatibility with couplers/controllers:

See manual, Section 3 "Device Description"

Data

Technical Data

|  |  |
|--|--|
| Type of signal   | RS-232, RS-422/-485  |
| Baud rate  | 300 Baud ... 115.2 kBd   |
| Bit transfer   | RS-485/-422: ISO 8482 / DIN 66259 - 4; RS-232: EIA/TIA-232-F                   |
| Transmission channels                                  | 1 TxD / 1 RxD, full duplex, half duplex 7 or 8 bit data, 1 stop bit            |
| Line length  | RS-485/-422: max. approx. 1000 m twisted pair, RS-232: max. 40 m               |
| Bit width  | 1 × 46/1 × 22/1 × 6-byte input/output (parametrizable), 2-byte control /status |
| Parity   | None/Even/Odd  |
| Number of data bits                                    | 7/8, adjustable  |
| Stop bits  | 1/2  |
| Buffer   | 2560 bytes in / 512 bytes out  |
| System supply voltage                                  | DC 5 V; via data contacts  |
| Current consumption, system supply (5 V)               | 85 mA  |
| Field supply voltage                                   | DC 24 V; connection via blade contacts, communication via spring contacts)     |
| Isolation  | 500 V system/supply  |
| Number of incoming power jumper contacts               | 2  |
| Number of outgoing power jumper contacts               | 2  |
| Current carrying capacity of the power jumper contacts | 10 A   |

Connection data

|                                    |  |
|------------------------------------|--|
| Connection technology: In-/Outputs | 8 × CAGE CLAMP®                              |
| Connection type (1)                | 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                       | 8 ... 9 mm / 0.31 ... 0.35 inch              |

Geometrical Data

|                                       |                      |
|---------------------------------------|----------------------|
| Width                                 | 12 mm / 0.472 inch   |
| Height                                | 67.8 mm / 2.669 inch |
| Height from upper-edge of DIN-35 rail | 60.6 mm / 2.386 inch |
| Depth                                 | 100 mm / 3.937 inch  |

Mechanical data

|                  |             |
|------------------|-------------|
| Type of mounting | DIN-35 rail |
|------------------|-------------|

## Material Data

|                    |                              |
|--------------------|------------------------------|
| Color              | light gray                   |
| Housing material   | Polycarbonate, polyamide 6.6 |
| Weight             | 51.511 g                     |
| Conformity marking | CE                           |

## Environmental Requirements

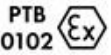
|  |   |
|--|---|
| Surrounding air (operating) temperature  | 0 ... 55 °C                             |
| Surrounding air (storage) temperature  | -40 ... 85 °C                           |
| Protection class   | IP20                                    |
| Degree of pollution (5)  | 2 per IEC 61131-2                       |
| Operating altitude   | 0 ... 2000 m                            |
| Mounting position  | horizontal (standing/lying) or vertical |
| Relative air humidity (no condensation)  | 95 %                                    |
| Vibration resistance   | 4g per IEC 60068-2-6                    |
| Shock resistance   | 15g per IEC 60068-2-27                  |
| EMC immunity to interference   | acc. to EN 61131-2, marine applications |
| EMC emission of interference   | acc. to EN 61131-2, marine applications |
| Exposure to pollutants   | Per IEC 60068-2-42 and IEC 60068-2-43   |
| 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

|                   |                 |
|-------------------|-----------------|
| Product Group     | 15 (Remote I/O) |
| Country of origin | DE              |
| GTIN              | 4055143880336   |


## Approvals / Certificates

### Ex-Approvals







| Logo   | Approval                    | Additional Approval Text | Certificate name            |
|--|-----------------------------|--------------------------|-----------------------------|
|  | ATEX<br>TUEV Nord Cert GmbH | EN 60079-0               | TÜV 07 ATEX 554086 X<br>en. |

|  |  |                   |                     |
|--|--|-------------------|---------------------|
|  | TUEV Nord<br>TUEV Nord Cert GmbH                           | IEC 60079-0       | IECEX TUN 09.0001 X |
|  | UL<br>Underwriters Laboratories Inc. (HAZARDOUS LOCATIONS) | ANSI/ISA 12.12.01 | E198726 Sec.1       |

Country specific Approvals

| Logo   | Approval                             | Additional Approval Text | Certificate name  |
|--|--------------------------------------|--------------------------|-------------------|
|  | KC<br>National Radio Research Agency | Article 58-2, Clause 3   | MSIP-REM-43SIM750 |

Ship Approvals

| Logo  | Approval   | Additional Approval Text | Certificate name  |
|---|--|--------------------------|-------------------|
|   | ABS<br>American Bureau of Shipping               | -                        | 19-HG1821926      |
|   | DNV GL<br>Det Norske Veritas, Germanischer Lloyd | -                        | TAA0000194        |
|   | GL<br>Germanischer Lloyd                         | -                        | 11 631 - 10<br>HH |
|   | KR<br>Korean Register of Shipping                | -                        | HMB05880AC001     |
|  | LR<br>Lloyds Register                            | -                        | 02/20026 (E5)     |
|   | NK<br>Nippon Kaiji Kyokai                        | -                        | TA17255M          |



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Data sheet | Item number: w750-652

<https://www.domat-int.com/en/data-sheets>



PRS  
Polski Rejestr Statków

-

TE/2236/880590/19



RINA  
RINA Germany GmbH

-

ELE343217XG

UL-Approvals

Logo

Approval

Additional Approval Text

Certificate name



UL  
UL International Netherlands B.V. (ORDINARY LOCATIONS)

UL 508

E175199 Sec.1

Subject to changes.

Domat control system

WAGO Kontakttechnik GmbH & Co. KG (manufacturer)

Do you have any questions about our products?

We are always happy to take your call at +420 461 100 666.