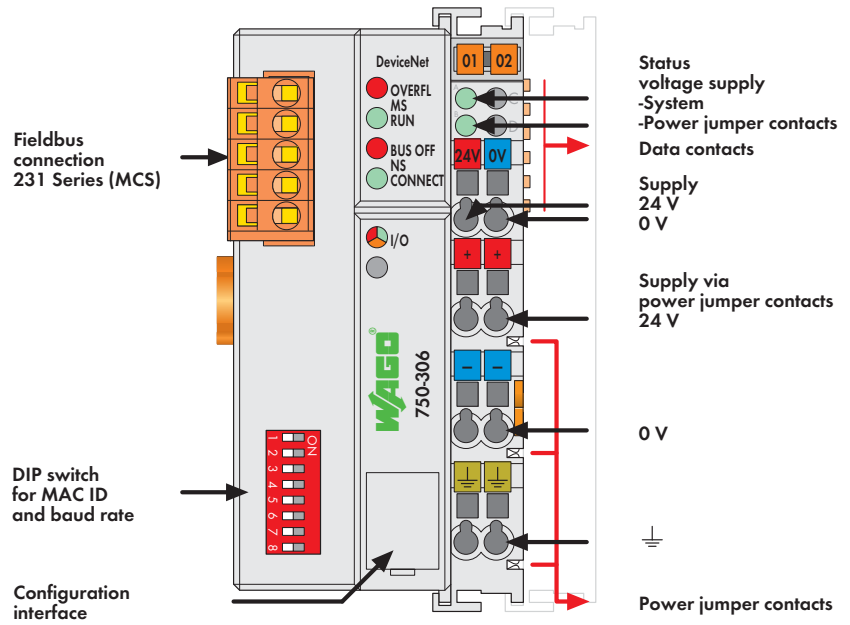


DeviceNet Fieldbus Coupler

125 ... 500 Kbaud; digital and analog signals



This buscoupler connects the WAGO-I/O-SYSTEM as a slave to the DeviceNet™ fieldbus.



The buscoupler automatically configures, creating a local process image which may include analog, digital or specialty modules. Analog and specialty module data is sent via words and/or bytes, digital data is sent bit by bit.

DeviceNet™ stores the process image in the corresponding Master control (PLC, PC or NC).

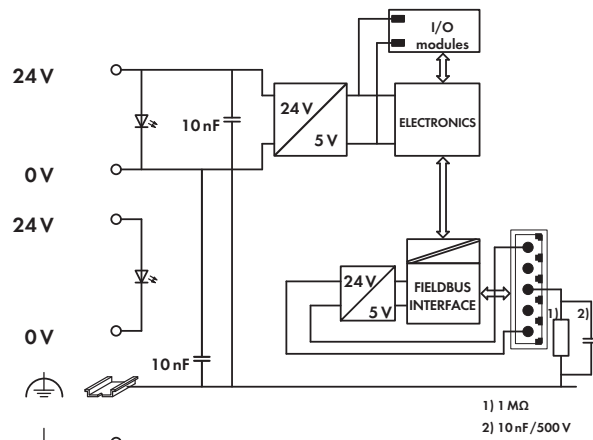
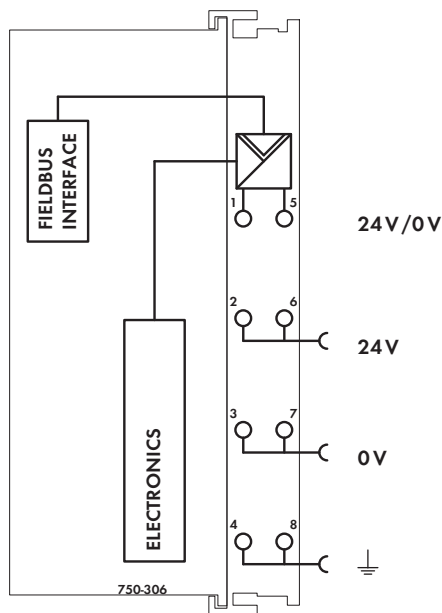
Notice: EDS files required

The local process image is divided into two data zones containing the data received and the data to be sent. The process data can be sent via the DeviceNet™ fieldbus to the PLC, PC or NC for further processing, and received from the field via DeviceNet™.

The data of the analog modules is stored in the process image which is created automatically according to the order in which the modules are connected to the buscoupler. The bits of the digital modules are sent byte by byte and added to the analog data. If the amount of digital information exceeds 8 bits, the buscoupler automatically starts with a new byte.

| Description | Item No. | Pack. Unit |
|---|---|------------|
| DeviceNet, w/ status byte | 750-306 | 1 |
| DeviceNet (only function with digital modules) | 750-306/000-005 | 1 |
| DeviceNet (without buskoppler status byte) | 750-306/000-006 | 1 |
| Accessories | | |
| EDS files Download: www.wago.com | | |
| Miniature WSB Quick marking system | | |
|  | plain 248-501 | 5 |
| | with marking see Section 11 | |
| Approvals | | |
| Certification | ODVA | |
| Conformity marking | CE | |
| Korea Certification |  | |
| Marine applications (versions upon request) | ABS, BV, DNV, GL, KR, LR, NKK, PRS, RINA | |
| UL 508 | | |
| ANSI/ISA 12.12.01 | Class I, Div. 2, Grp. ABCD, T4 | |
| TÜV 07 ATEX 554086 X | I M2 Ex d I Mb, II 3 G Ex nA IIC T4 Gc, II 3 D Ex tc IIIC T135°C Dc | |
| Permissible ambient temperature | 0 °C ... +60 °C | |
| IECEx TUN 09.0001 X | Ex d I Mb, Ex nA IIC T4 Gc, Ex tc IIIC T135°C Dc | |
| Permissible ambient temperature | 0 °C ... +60 °C | |

| System Data | |
|-------------------------------------|--|
| No. of couplers connected to Master | 64 with scanner |
| Max. no. of I/O points | approx. 6000 (depends on master) |
| Transmission medium | Shielded Cu cable Trunk line: 2 x 0.82 mm ² + 2 x 1.7 mm ² Drop line: 2 x 0.2 mm ² + 2 x 0.32 mm ² |
| Max. length of bus line | 100 m ... 500 m (depends on baud rate/cable) |
| Baud rate | 125 Kbaud, 250 Kbaud, 500 Kbaud |
| Buscoupler connection | 5-pole male connector, 231 Series (MCS), female connector 231-305/ 010-000/ 050-000 (included) |



| Technical Data | |
|--|--|
| Number of I/O modules | 64 |
| Max. input process image | 512 bytes |
| Max. output process image | 512 bytes |
| Configuration | via PC or PLC |
| DeviceNet features | Polled I/O message connection Strobed I/O message connection Change of state Cyclic message connection Group 2 only, slave |
| Power supply | 24 V DC (-25 % ... +30 %) |
| Current consumption | |
| via power supply terminal | < 500 mA / 24 V |
| via DeviceNet interface | < 120 mA / 11 V |
| Power supply efficiency | 87 % |
| Internal current consumption (5 V) | 350 mA |
| Total current for I/O modules (5 V) | 1650 mA |
| Isolation | 500 V system/supply |
| Voltage via power jumper contacts | 24 V DC (-25 % ... +30 %) |
| Current via power jumper contacts (max.) | 10 A DC |

| General Specifications | |
|---|--|
| Operating temperature | 0 °C ... +55 °C |
| Wire connection | CAGE CLAMP® |
| Cross sections | 0.08 mm ² ... 2.5 mm ² / AWG 28 ... 14 |
| Strip lengths | 8 ... 9 mm / 0.33 in |
| Dimensions (mm) W x H x L | 51 x 65 x 100 |
| | Height from upper-edge of DIN 35 rail |
| Weight | 200 g |
| Storage temperature | -25 °C ... +85 °C |
| Relative air humidity (no condensation) | 95 % |
| Vibration resistance | acc. to IEC 60068-2-6 |
| Shock resistance | acc. to IEC 60068-2-27 |
| Degree of protection | IP20 |
| EMC immunity of interference | acc. to EN 61000-6-2, marine applications |
| EMC emission of interference | acc. to EN 61000-6-4, marine applications |