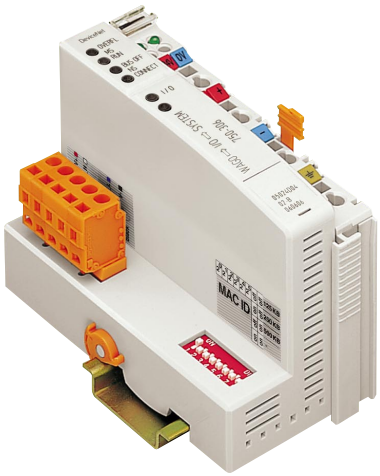
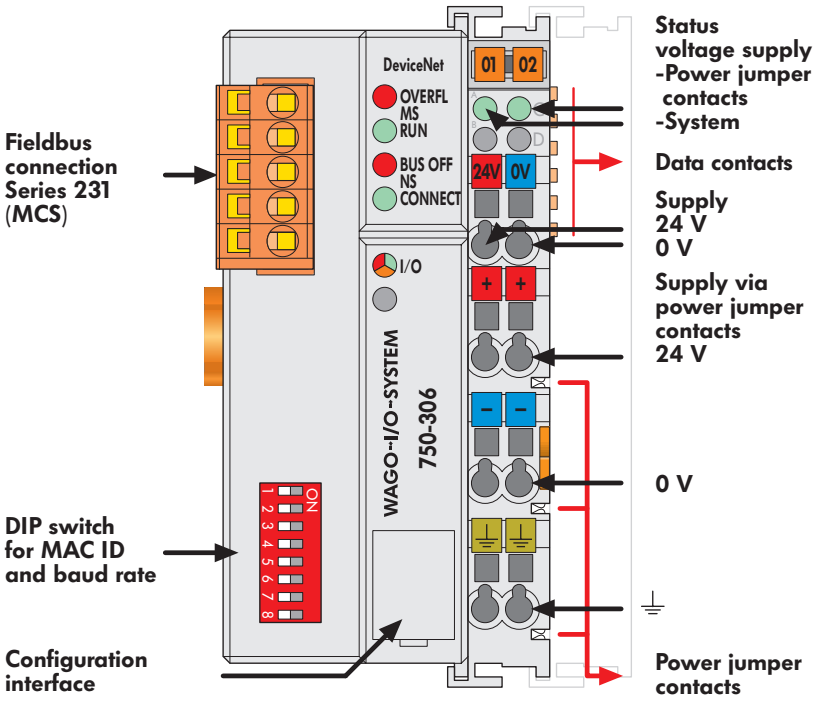
*Device*Net™
Fieldbus Coupler; 125 ... 500 kbaud; digital and analog signals





This buscoupler allows connection of the WAGO I/O SYSTEM as a slave to the *Device*Net™ fieldbus.

The buscoupler is capable of supporting all bus modules. 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.

*Device*Net™ allows the storing of the process image in the corresponding Master control (PLC, PC or NC).

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 *Device*Net™ fieldbus to the PLC, PC or NC for further processing, and received from the field via *Device*Net™.

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.

Note: EDS files required

Description	Item-No.	Pack.-unit pcs
DeviceNet	**750-306**	1
DeviceNet		
(only functions with digital modules)	**750-306/000-005**	1
DeviceNet		
(without buscoupler status byte)	**750-306/000-006**	1

System Data	
Max. no. of nodes	64 with scanner
Max. no. of I/O points	ca 6000 (depends on master)
Transmission medium	shielded Cu cable,
	trunk line:
	AWG 15, 18 (2 x 0.82 mm² + 2 x 1.7 mm²)
	drop line:
	AWG 22, 24 (2 x 0.2 mm² + 2 x 0.32 mm²)
Max. length of bus line	100 m ... 500 m
	(depends on the baud rate/on the cable)
Baud rate	125 kbaud, 250 kbaud, 500 kbaud
Buscoupler connection	5-pole male connector, series 231 (MCS),
	female connector 231-305/010-000/050-000
	is included

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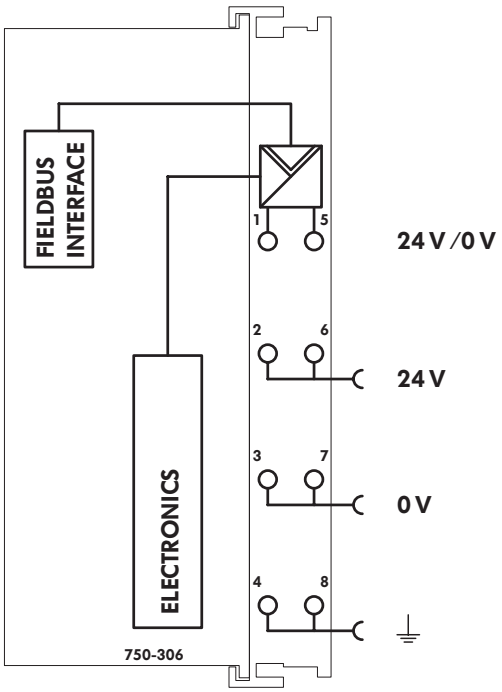

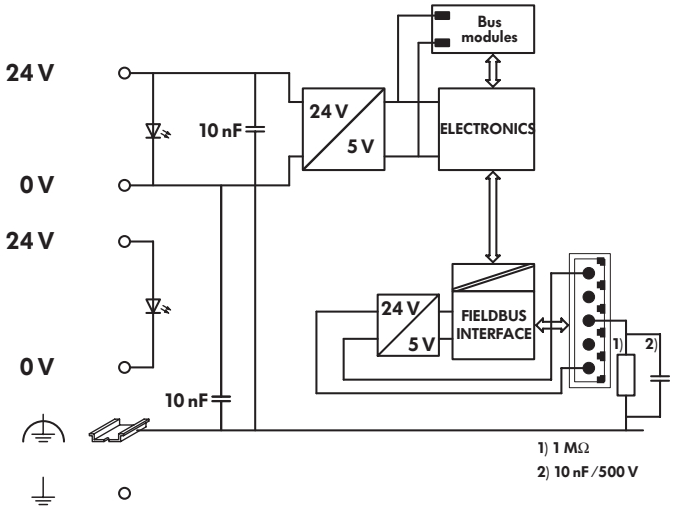

Technical Data

Max. no. of I/O modules	64
Fieldbus	
-Input process image	max. 512 bytes
-Output process image	max. 512 bytes
Configuration	via PC or control
DeviceNet features	Polled I/O Message Connection
	Strobed I/O Message Connection
	Change of State / Cyclic Message Connection
	Group 2 only Slave
Voltage supply	DC 24 V (-15 % ... +20 %)
Current consumption	
- via power supply terminal	< 500 mA at 24 V
- via DeviceNet interface	< 120 mA at 11 V
Efficiency of the power supply	87 %
Internal current consumption	350 mA at 5 V
Total current for I/O modules	1650 mA at 5 V
Isolation	500 V system / supply
Voltage via power jumper contacts	DC 24 V (-15 % ... +20 %)
Current via power jumper contacts $_{max.}$	DC 10 A

General specifications

Operating temperature	0 °C ... +55 °C
Wire connection CAGE CLAMP®	0.08 mm² ... 2.5 mm²; AWG 28 ... 14
	8 ... 9 mm / 0.33 in stripped length
Dimensions (mm) W x H x L	51 x 65* x 100
	* from upper edge of DIN 35 rail
Weight	ca 195 g
Storage temperature	-25 °C ... +85 °C
Relative air humidity	95 % no condensation
Vibration and	acc. to IEC 60068-2-6
shock resistance	acc. to IEC 60068-2-27
Degree of protection	IP 20
EMC CE -Immunity to interference	acc. to EN 50082-2 (1996)
EMC CE -Emission of interference	acc. to EN 50081-1 (1993)

Approvals

Certification	ODVA
cULus	see pages 1.10 ... 1.13
Ex	II 3 G EEx nA II T4, Class I Div2 ABCD T4A
Conformity marking	CE

Accessories

		Item-No.	Pack.-unit pcs
EDS files		Download: www.wago.com	
Miniature WSB quick marking system			
	plain	**248-501**	5
	with marking	see pages 1.174 ... 1.175	