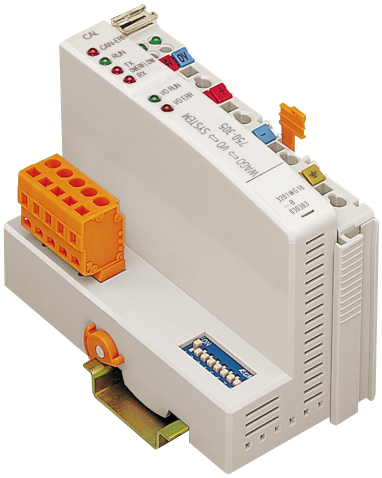
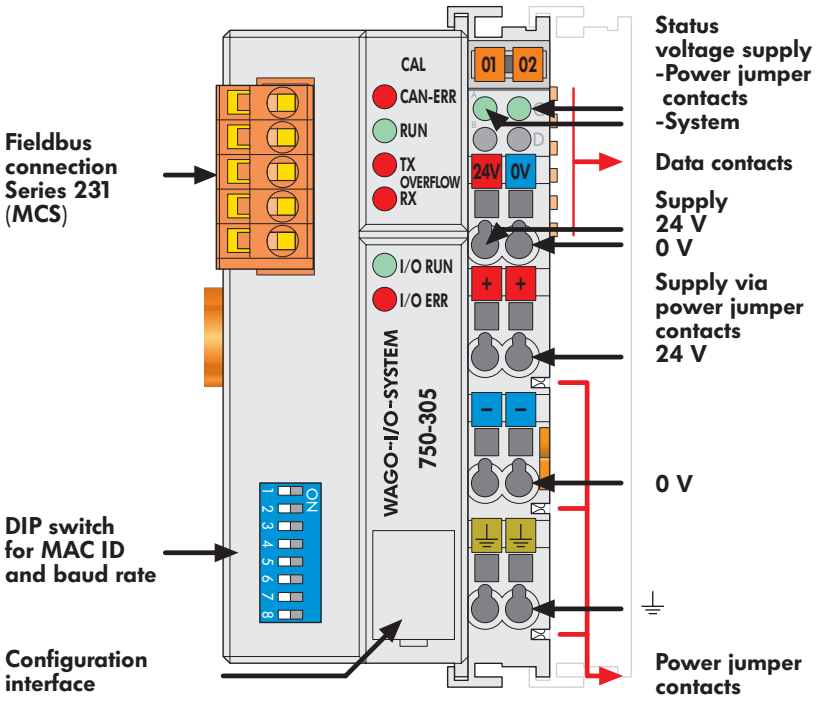
CAL
Fieldbus Coupler; 10 kbaud ... 1 Mbaud; digital and analog signals





This buscoupler allows connection of the WAGO ➟ I/O ➟ SYSTEM as a slave to the CAL fieldbus. The module data is transmitted using Communication Objects (COB).

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.

CAL 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 CAL fieldbus to the PLC, PC or NC for further processing, and received from the field via CAL.

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. The input and output process image is transmitted using the Basic Domain Protocol.

A Communication Object (COB) is assigned to each channel of an analog module and each digital byte group. They are transmitted using the Basic Variable Protocol.

Description	Item-No.	Pack.-unit pcs
CAL	**750-305**	1

System Data	
No. of COB-IDs	25
Transmission medium	shielded Cu cable 3 x 0.25 mm²
Max. length of bus line	1000 m (depends on baud rate/on the cable)
Baud rate	10 kbaud ... 1 Mbaud
Buscoupler connection	5-pole male connector, series 231 (MCS)
	female connector 231-305/010-000
	is included

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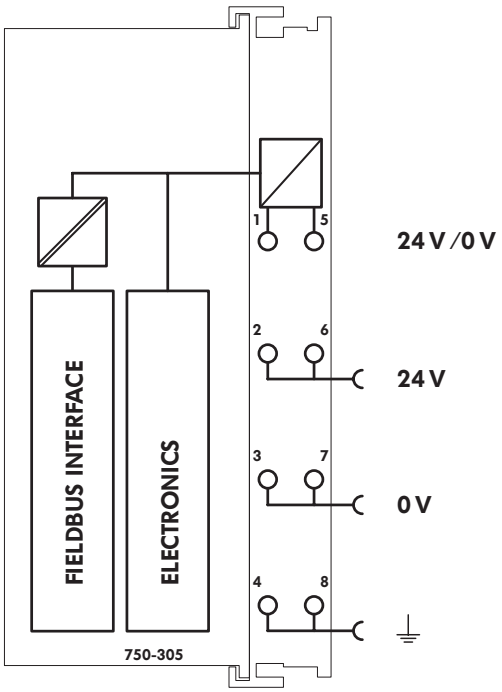

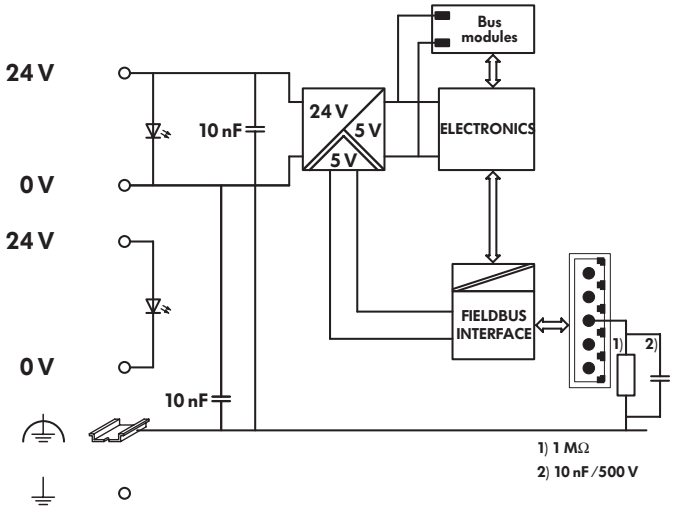

Technical Data

Max. no. of I/O modules	64
Fieldbus	
-Input process image	max. 512 bytes
-Output process image	max. 512 bytes
Configuration	via PC or PLC
Voltage supply	DC 24 V (-15 % ... +20 %)
Input current $_{max.}$	500 mA at 24 V
Efficiency of the power supply	87 %
Internal current consumption	350 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 190 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 50081-2 (1994)

Approvals

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
Miniature WSB quick marking system			
	plain	**248-501**	5
	with marking	see pages 1.174 ... 1.175