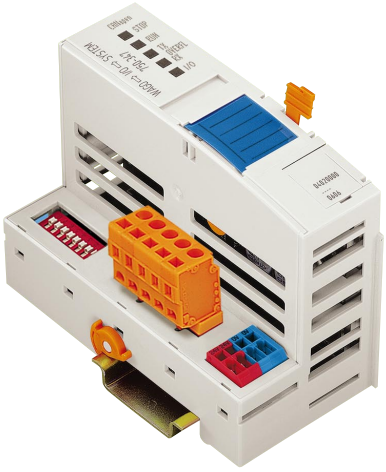
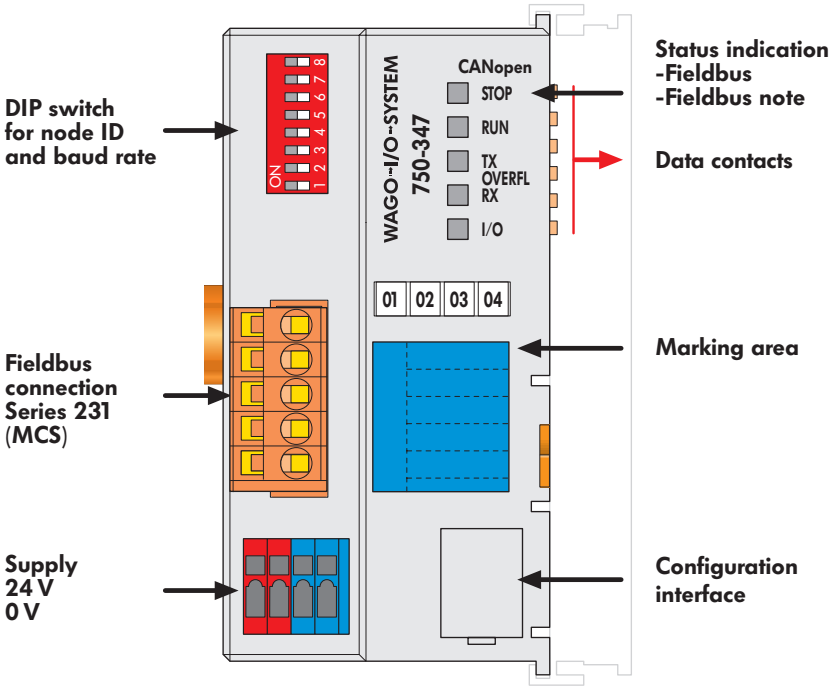
CANopen
ECO Fieldbus Coupler MCS; 10 kbaud - 1 Mbaud; digital and analog signals





The ECO fieldbus coupler is designed for applications with a reduced scale I/O requirement. Using digital only process data or small amounts of analogs, while retaining all of the choice that's offered by the Series 750 I/O.

The coupler has an integrated supply terminal for the system voltage. The field power jumper contacts are supplied via a separate supply module.

The CANopen bus coupler is capable of supporting all I/O modules and automatically configures, creating a local process image.

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

The data of the analog modules is stored in the PDOs 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 also mapped in the PDOs. If the amount of digital information exceeds 8 bits, the buscoupler automatically starts with a new byte.

All entries of the object dictionary can be mapped - as the user likes - in the 5 Rx PDOs and 5 Tx PDOs. The complete input and output process image can be transmitted using SDOs.

Note: EDS files required

Description	Item-No.	Pack.-unit pcs
ECO CANopen	**750-347**	1

System Data	
No. of nodes	110
Transmission medium	shielded Cu cable 3 x 0.25 mm^2
Max. length of bus line	30 m ... 1000 m
	(depends on the 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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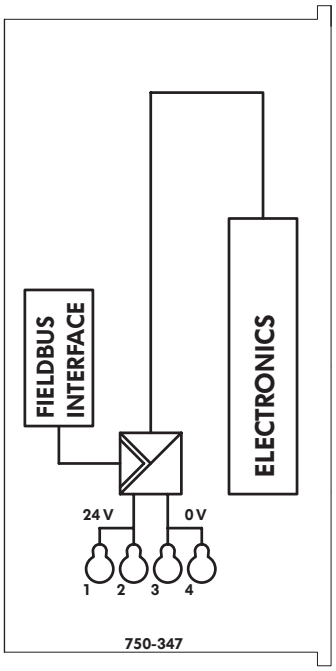

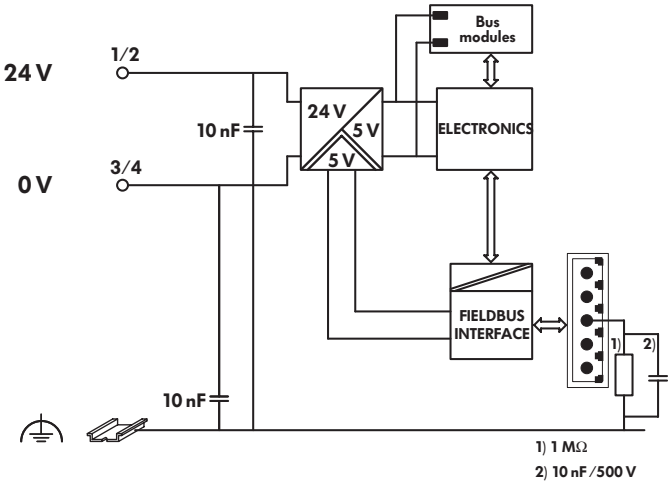

Technical Data

Max. no. of I/O modules	64
Fieldbus	
-Input process image	max. 32 bytes
-Output process image	max. 32 bytes
No. of PDOs	5 Tx / 5 Rx
No. of SDOs	1 server SDO
Communication profile	DS-301 V4.1
Device profile	DS-401 V2.0
	Programmable error response
COB ID Distribution	SDO, standard
Node ID Distribution	DIP switches
Other CANopen features	NMT Slave
	Minimum Boot-up
	Variable PDO Mapping
	Emergency Message
	Life Guarding
Configuration	via PC or PLC
Voltage supply	DC 24 V (-15 % ... +20 %)
Input current $_{typ}$ at nominal load	260 mA at 24 V
Efficiency of the power supply $_{typ}$	
at nominal load	80 %
Internal current consumption	350 mA at 5 V
Total current for I/O modules	650 mA at 5 V

General specifications

Operating temperature	0 °C ... +55 °C
Wire connection CAGE CLAMP®	0.08 mm² ... 1.5 mm², AWG 28 ... 14 [1]
	5 ... 6 mm stripped length
Dimensions (mm) W x H x L	50 x 65* x 97
	* from upper edge of DIN 35 rail
Weight	ca 120 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)

[1] AWG 12/14 : THHN, THWN

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
EDS files		Download: www.wago.com	
Miniature WSB quick marking system			
	plain	**248-501**	5
	with marking	see pages 1.174 ... 1.175	