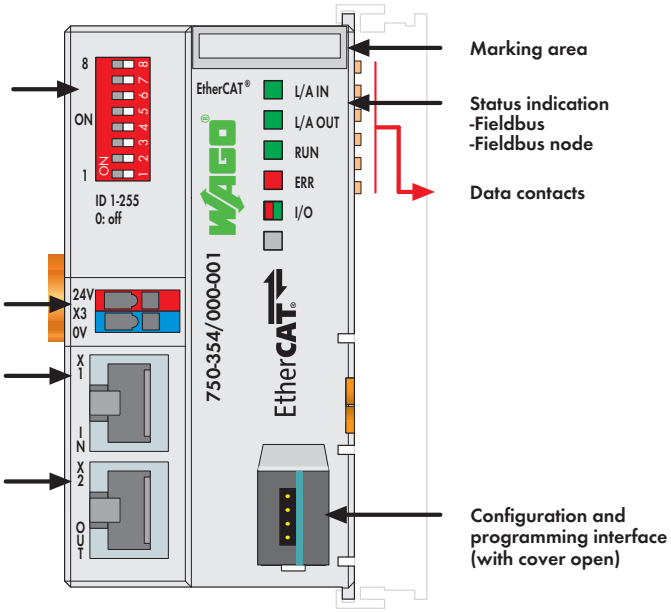
EtherCAT® Fieldbus Coupler, ID Switch

100 Mbit/s; digital and analog signals



The 750-354 EtherCAT® Fieldbus Coupler connects EtherCAT® to the modular WAGO-I/O-SYSTEM.
The fieldbus coupler 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.

The upper EtherCAT® interface connects the coupler to the network. The lower RJ-45 socket connects additional EtherCAT® devices to the same line.

EtherCAT® (Ethernet Control Automation Technology) is a real-time ETHERNET solution designed for industrial automation applications and characterized by high performance, flexible topology and simple configuration. With EtherCAT®, the costly ETHERNET star topology can be replaced with a simple line or tree structure.
The address selection switch is used to set an Explicit Device ID (EDI), which allows a fixed ID to be assigned to an EtherCAT® slave.

Description	Item No.	Pack. Unit
EtherCAT® Fieldbus Coupler, ID Switch	**750-354/000-001**	1
EtherCAT® Fieldbus Coupler, ID Switch, Diagnostics	**750-354/000-002**	1

Accessories		Item No.	Pack. Unit
Miniature WSB Quick marking system			
	plain	**248-501**	5
	with marking	see Section 11	

Approvals

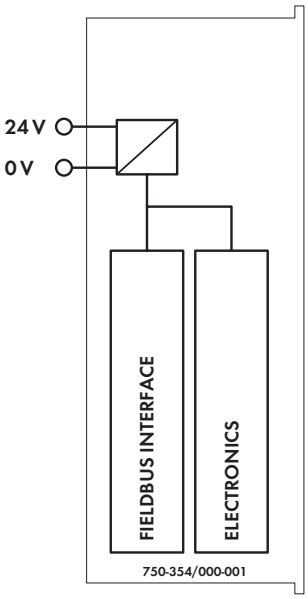
Conformity marking	CE
Marine applications	GL (750-354/000-001)
cULus UL 508	
cULus ANSI/ISA 12.12.01	Class I, Div. 2, Grp. ABCD, T4

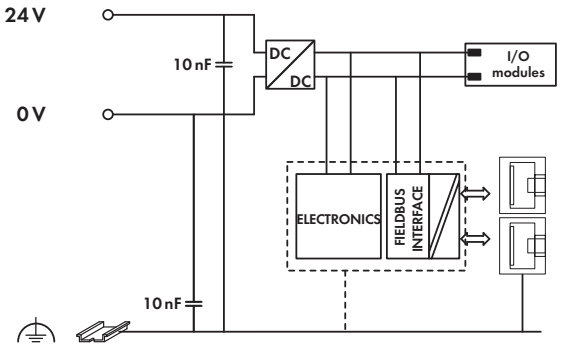
System Data

No. of couplers connected to Master	limited by EtherCAT specification
Transmission medium	Shielded twisted pair
	S/FTP, F/FTP or SF/FTP;
	100 Ω, Cat 6
Baud rate	100 Mbit/s
Transmission performance	Class D acc. to EN 50173-1
Buscoupler connection	2 x RJ-45
Protocols	EtherCAT (direct mode)

EtherCAT® is regristered trademark and patented technology, licensed by Beckhoff Automation GmbH, Germany.

EtherCAT®
Conformance tested





Technical Data

Number of I/O modules	64
Max. input process image	1024 bytes
Max. output process image	1024 bytes
Configuration	via PC
Power supply	24 V DC (-25 % ... +30 %)
Input current typ. at rated load (24 V)	250 mA
Efficiency of the power supply (typ.) at nominal load (24 V)	85 %
Internal current consumption (5 V)	300 mA
Total current for I/O modules (5 V)	700 mA
Isolation	500 V system/supply

General Specifications

Operating temperature	0 °C ... +55 °C
Wire connection	CAGE CLAMP®
Cross sections	0.08 mm² ... 2.5 mm² / AWG 28 ... 14
Strip lengths	8 ... 9 mm / 0.33 in
Dimensions (mm) W x H x L	65 x 50 x 97
	Height from upper-edge of DIN 35 rail
Weight	152 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 61000-6-3, marine applications