

Data sheet | Item number: 750-354/000-002  
 Fieldbus Coupler EtherCAT; ID Switch; 100 Mbit/s; Diagnostics

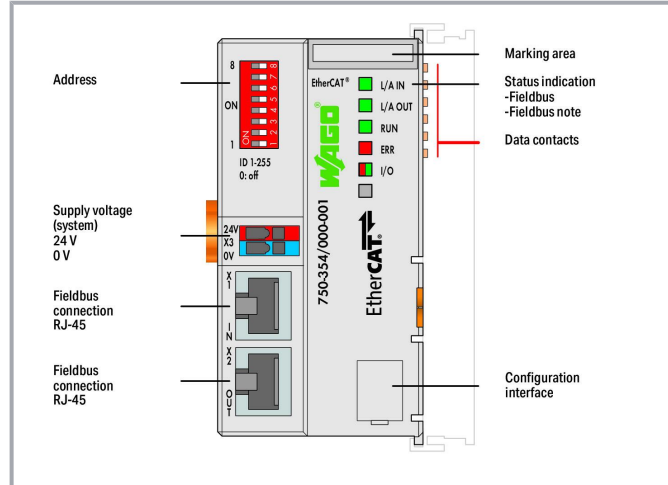


[www.wago.com/750-354/000-002](http://www.wago.com/750-354/000-002)



**i** Picture differs from the item.

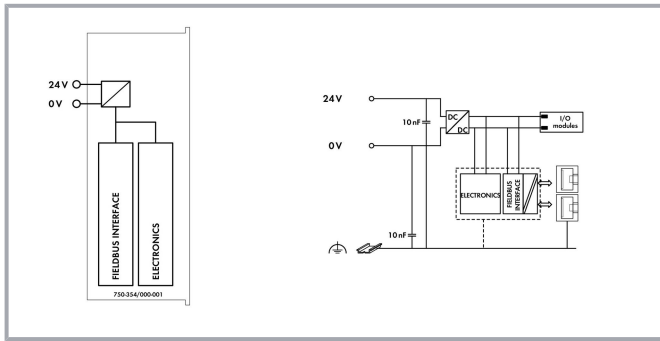
Color:



Subject to changes. Please also observe the further product documentation!

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## Item description

The EtherCAT<sup>®</sup> Fieldbus Coupler connects EtherCAT<sup>®</sup> to the modular WAGO I/O System.

The fieldbus coupler detects all connected I/O modules and creates a local process image. This process image may include a mixed arrangement of analog (word-by-word data transfer) and digital (bit-by-bit data transfer) modules.

The upper EtherCAT<sup>®</sup> interface connects the coupler to the network. The lower RJ-45 socket may connect additional EtherCAT<sup>®</sup> devices to the same line.

EtherCAT<sup>®</sup> (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<sup>®</sup>, 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 address to be assigned to an EtherCAT<sup>®</sup> slave.

## Data

### Technical data

Communication	EtherCAT
Baud rate	100 Mbit/s
Transmission medium	Shielded twisted pair S/FTP, F/FTP or SF/FTP; 100 Ω; Cat. 6
Transmission performance	Class D per EN 50173
Number of modules per node (max.)	64
Input and output (fieldbus) process image (max.)	1024 Byte/1024 Byte
Supply voltage (system)	24 VDC (-25 ... +30 %); via pluggable connector
Power consumption (5 V system supply)	300 mA
Total current (system supply)	700 mA
Input current (typ.) at nominal load (24 V)	250 mA
Power supply efficiency (typ.) at nominal load (24 V)	85 %
Isolation	500 V system/field

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## Connection data

Connection technology: communication/fieldbus	EtherCAT: 2 x RJ-45
Connection technology: system supply	2 x CAGE CLAMP®
Connection technology: device configuration	1 x Male connector; 4-pole
Connection type (1)	System supply
Solid conductor	0.08 ... 1.5 mm <sup>2</sup> / 28 ... 14 AWG
Fine-stranded conductor	0.08 ... 1.5 mm <sup>2</sup> / 28 ... 14 AWG
Strip length	5 ... 6 mm / 0.2 ... 0.24 inch

## Physical data

Width	49.5 mm / 1.949 inch
Height	96.8 mm / 3.811 inch
Depth	71.9 mm / 2.831 inch
Depth from upper edge of DIN-rail	64.7 mm / 2.547 inch

## Mechanical data

Mounting type	DIN-35 rail
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## Material data

Color	light gray
Housing material	Polycarbonate; polyamide 6.6
Fire load	1.375 MJ
Weight	109 g
Conformity marking	CE

## Environmental requirements

Surrounding air temperature (operation)	0 ... 55 °C
Surrounding air temperature (storage)	-40 ... 85 °C
Protection type	IP20
Pollution degree (5)	2 per IEC 61131-2
Operating altitude	0 ... 2000 m
Mounting position	horizontal (standing/lying); vertical
Relative humidity (without condensation)	95 %
Vibration resistance	per IEC 60068-2-6
Shock resistance	15g per IEC 60068-2-27

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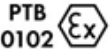



EMC immunity to interference	per EN 61000-6-2
EMC emission of interference	per EN 61000-6-3
Exposure to pollutants	Per IEC 60068-2-42 and IEC 60068-2-43
Permissible H <sub>2</sub> S contaminant concentration at a relative humidity 75 %	10 ppm
Permissible SO <sub>2</sub> contaminant concentration at a relative humidity 75 %	25 ppm

### Commercial data

PU (SPU)	1 Stück
Packaging type	box
Country of origin	DE
GTIN	4055143825719
Customs tariff number	85176200000

### Approvals / Certificates

#### Ex-Approvals

Logo	Approval	Additional Approval Text	Certificate name
	<b>ATEX</b> TUEV Nord Cert GmbH	EN 60079	TUEV_14_ATEX_148929_X
 Ex nA IIC T4 Gc	<b>CCCEx</b> CQST/CNEx	CNCA-C23-01	2020312310000213
	<b>IECEX</b> TUEV Nord Cert GmbH	IEC 60079-0	IECEX_TUN_14.0035_X
	<b>UL</b> Underwriters Laboratories Inc. (HAZARDOUS LOCATIONS)	UL 121201	E198726 Sec.1

#### UL-Approvals

Logo	Approval	Additional Approval Text	Certificate name
	<b>UL</b> Underwriters Laboratories Inc. (ORDINARY)	UL 508	E175199 Sec.1

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LOCATIONS)

## Downloads

### Documentation

#### Manual

EtherCAT Fieldbus Coupler, ID Switch 100 Mbit/s; digital und analog signals	V 1.0.0	pdf 8.2 MB	Download
System Manual WAGO I/O System 750 / 753 Decentralized Automation Technology	V 3.0.2 Apr 27, 2021	pdf 6.6 MB	Download
System Manual Series 750/753 Online HTML		URL	Download

#### Bid Text

750-354/000-002 X81 - Datei	Feb 19, 2019	xml 6.0 kB	Download
750-354/000-002 docx - Datei	Dec 17, 2018	docx 18.0 kB	Download

#### Additional Information

Disposal; Electrical and electronic equipment, Packaging	V 1.0.0	pdf 265.8 kB	Download
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#### System Description

Use in Hazardous Environments Term definition, marking and installation regulations	V 1.0.0	pdf 1.0 MB	Download
750/753 Series I/O-System – General Product Information		pdf 1.7 MB	Download
Overview on WAGO-I/O-SYSTEM 750 approvals		pdf 780.2 kB	Download

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## CAD/CAE-Data

### CAD data

2D/3D Models 750-354/000-002	<a href="#">URL</a>	<a href="#">Download</a>
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### CAE data

ZUKEN Portal 750-354/000-002	<a href="#">URL</a>	<a href="#">Download</a>
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## Device Files

### Device Description File

(750-909) ESI file for EtherCAT 750 Series and 765 Series	23 Jul 9, 2021	zip 216.9 kB	<a href="#">Download</a>
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## Environmental Product Compliance

### Compliance Search

Environmental Product Compliance 750-354/000-002 Fieldbus Coupler EtherCAT; ID Switch; 100 Mbit/s; Diagnostics	<a href="#">URL</a>	<a href="#">Download</a>
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## Installation Notes

## Product family

**WAGO I/O System 750/753**  
[Show all products from the family](#)

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