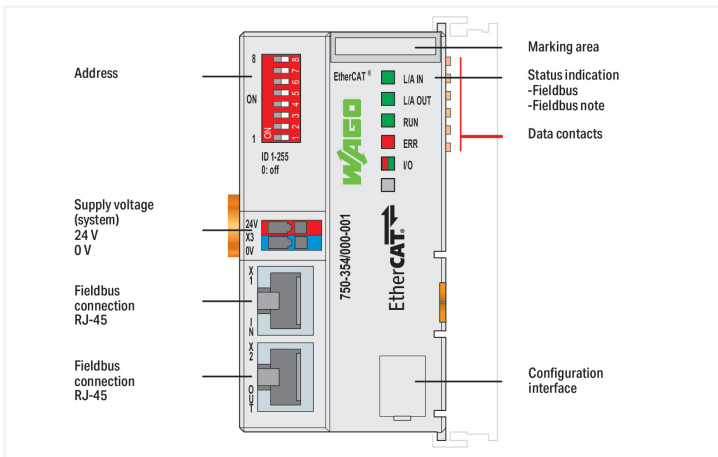


Similar to illustration



The EtherCAT® Fieldbus Coupler connects EtherCAT® 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® interface connects the coupler to the network. The lower RJ-45 socket may connect 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 address to be assigned to an EtherCAT® slave.

Technical data

Communications	EtherCAT®
Transmission rate	100 Mbit/s
Transmission medium (communication/fieldbus)	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
Number of modules without a bus extension (max.)	64
Input and output process image (fieldbus) max.	1024 bytes/1024 bytes
Supply voltage (system)	24 VDC (-25 ... +30 %); via pluggable connector
Current 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

Connection Data

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

Physical data

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

Mechanical data

Mounting type	DIN-35 rail
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Material data

Housing material	Polycarbonate; polyamide 6.6
Fire load	1.357 MJ
Weight	109 g
Conformity marking	CE

Environmental requirements

Ambient temperature (operation)	0 ... +55 °C
Ambient temperature (storage)	-25 ... +85 °C
Protection type	IP20
Pollution degree	2 per IEC 61131-2
Operating altitude	0 ... 2000 m / 0 ... 6562 ft
Mounting position	Horizontal left, horizontal right, horizontal top, horizontal bottom, vertical top and vertical bottom
Relative humidity (without condensation)	95 %
Vibration resistance	Per IEC 60068-2-6
Shock resistance	15g per IEC 60068-2-27
EMC immunity to interference	per EN 61000-6-2
EMC emission of interference	per EN 61000-6-3

Environmental requirements

Exposure to pollutants	per IEC 60068-2-42 and IEC 60068-2-43
Permissible H ₂ S contaminant concentration at a relative humidity 75 %	10 ppm
Permissible SO ₂ contaminant concentration at a relative humidity 75 %	25 ppm

Product Classification

UNSPSC	32151705
eCl@ss 10.0	27-24-26-07
eCl@ss 9.0	27-24-26-07
ETIM 9.0	EC001603
ETIM 10.0	EC001603
ECCN	NO US CLASSIFICATION

Environmental Product Compliance

CAS-No.	12060-00-3 1303-86-2 1317-36-8 693-98-1 7439-92-1 79-94-7
REACH Candidate List Substance	2,2',6,6'-tetrabromo-4,4'-isopropylidenediphenol 2-methylimidazole Diboron trioxide Lead Lead monoxide Lead titanium oxide (PbTiO ₃)
RoHS Compliance Status	Compliant,With Exemption
RoHS Exemption	6(c) 7(a) 7(c)-I 7(c)-II
SCIP notification number (Austria)	e1a56edc-e2cb-4e53-a54b-ae4959efc608
SCIP notification number (Belgium)	e1e30b08-fb5c-461a-bb66-25a31c2199ac
SCIP notification number (Bulgaria)	8832be76-8f48-4211-86bb-36b876de5f9c
SCIP notification number (Czech Republic)	d0803fc8-3448-4406-a720-595879d6823a
SCIP notification number (Denmark)	48842055-e39e-4bee-9729-25be272b6579
SCIP notification number (Finland)	04a87456-1e59-4042-8219-d26ec71c9162
SCIP notification number (France)	340d22cc-b95c-4beb-9c7c-ee07abf706d0
SCIP notification number (Germany)	df123400-0c43-4bd2-8c97-07d385bb6ac3
SCIP notification number (Hungary)	11b833b8-e269-423a-af67-1438d10b4046
SCIP notification number (Italy)	b3855815-c84e-4753-a08d-494e436fc896
SCIP notification number (Netherlands)	3d4c6442-94ed-4735-bc89-d0aac0e56bd1
SCIP notification number (Poland)	9b7bafa0-47fa-46d3-b351-de6fbcabbe99
SCIP notification number (Romania)	d240e561-40c9-4520-a051-a4e4a0e7e8c7
SCIP notification number (Sweden)	7ffb7f78-042b-4cee-a55e-11d93acd0c36

Approvals / Certificates

General approvals

	General approvals UL Underwriters Laboratories Inc. (ORDINARY LOCATIONS)	UL 508 E175199
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Approval	Standard	Certificate Name
EAC GZO Almaty Standart	TP TC 020/2011	EAC CoC 03083
KC National Radio Research Agency	Article 58-2, Clause 3	MSIP-REM-W43-FBC750

Declarations of conformity and manufacturer's declarations

Approval	Standard	Certificate Name
EU-Declaration of Conformity WAGO GmbH & Co. KG	-	-
UK-Declaration of Conformity WAGO GmbH & Co. KG	-	-

Approvals for marine applications



Approval	Standard	Certificate Name
DNV DNV GL SE	DNV-CG-0339, Aug. 2021	TAA0000194

Approvals for hazardous areas



Approval	Standard	Certificate Name
ATEX TUEV Nord Cert GmbH	EN 60079-0	TUEV14ATEX148929X (II 3 G Ex ec IIC T4 Gc)
CCCEX CQST/CNEX	CNCA-C23-01	2020312310000213 (Ex ec IIC T4 Gc)
IECEX TUEV Nord Cert GmbH	IEC 60079-0	IECEX TUN 14.0035 X (Ex ec IIC T4 Gc)
INMETRO TÜV Rheinland do Brasil Ltda.	IEC 60079-0	TÜV 12.1297 X
KTL Korea Testing Laboratory	KOSHA Article 34, IEC60079-0	20-KA4BO-0108X
UKEx WAGO GmbH & Co. KG	EN 60079-0	UKCA_WA GO22UKEX003X_ec
UL Underwriters Laboratories Inc. (HAZARDOUS LOCATIONS)	UL 121201	E198726

Downloads

Environmental Product Compliance

Compliance Search
Environmental Product Compliance 750-354/000-002 ↓

Documentation

Manual
Product Manual Ether-CAT Fieldbus Coupler, ID Switch V 1.0.0 pdf 8023.05 KB ↓
System Manual Series 750/753 ↓

System Description
750/753 Series I/O-System – General Product Information pdf 953.35 KB ↓
Overview on WAGO-I/O-SYSTEM 750 approvals pdf 770.48 KB ↓

Bid Text			
750-354/000-002	19.02.2019	xml 5.89 KB	↓
750-354/000-002	17.12.2018	docx 17.55 KB	↓

Instruction Leaflet			
CCC Ex (Additional information)	26.04.2023	pdf 159.76 KB	↓

CAD/CAE-Data

CAD data			
2D/3D Models 750-354/000-002			↓

CAE data			
ZUKEN Portal 750-354/000-002			↓

Runtime Software

Firmware			
0750-0354, Feldbus-koppler EtherCAT	V 05 19.10.2021	zip 666.20 KB	↓

Libraries

Device Description File			
(750-909) ESI file for EtherCAT 750 Series	24 04.10.2022	zip 112.36 KB	↓