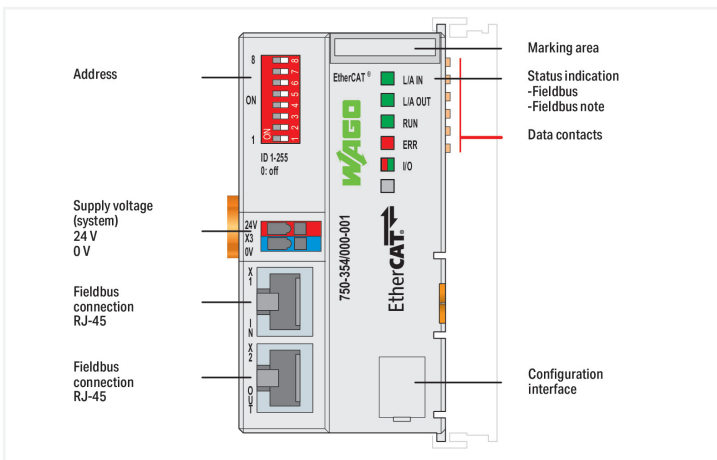


Similar to illustration



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

| | |
|---|---|
| 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 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® |
| Connection technology: device configuration | 1 x Male connector; 4-pole |
| Connection type 1 | 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 |

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 |
|---------------|-------------|

Material data

| | |
|--------------------|------------------------------|
| Housing material | Polycarbonate; polyamide 6.6 |
| Fire load | 1.452 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 (standing/lying); vertical |
| 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 |
| 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 |

Commercial data

| | |
|-----------------------|---------------|
| eCl@ss 10.0 | 27-24-26-07 |
| eCl@ss 9.0 | 27-24-26-07 |
| ETIM 8.0 | EC001603 |
| ETIM 7.0 | EC001603 |
| PU (SPU) | 1 pcs |
| Packaging type | Box |
| Country of origin | DE |
| GTIN | 4055143825719 |
| Customs tariff number | 85176200000 |

Environmental Product Compliance

| | |
|---|---|
| CAS-No. | 12060-00-3 1303-86-2 1317-36-8 693-98-1 7439-92-1 |
| REACH Candidate List Substance | 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



| Approval | Standard | Certificate Name |
|---|------------------------|---------------------------------|
| EAC Brjansker Zertifizierungs- stelle | TP TC 020/2011 | EAC RU C-DE.AM02. B.00087/19 |
| KC National Radio Research Agency | Article 58-2, Clause 3 | MSIP-REM-W43-FBC750 |
| UL Underwriters Laboratories Inc. (ORDINARY LOCATI- ONS) | UL 508 | E175199 Sec.1 |

Declarations of conformity and manufacturer's declarations

| Approval | Standard | Certificate Name |
|---|----------|------------------|
| EU-Declaration of Confor- mity WAGO GmbH & Co. KG | - | - |
| UK-Declaration of Confor- mity WAGO GmbH & Co. KG | - | - |

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) |

Approvals for hazardous areas

| Approval | Standard | Certificate Name |
|--|---------------------------------|----------------------------|
| INMETRO TÜV Rheinland do Brasil Ltda. | IEC 60079-0 | BR-Ex_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 LOCA- TIONS) | UL 121201 | E198726 Sec.1 |

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 WAGO
I/O System 750/753 V 3.3.3
29.08.2023 pdf
8512.61 KB 


System Manual Series
750/753 


System Description

750/753 Series I/O-
System – General Pro-
duct Information pdf
953.35 KB 

Overview on WAGO-I/
O-SYSTEM 750 appro-
vals 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 in-
formation) 26.04.2023 pdf
159.76 KB 

Application Notes

Application Note e!COCKPIT

e!COCKPIT Application 1.0.0 pptx
Note EtherCAT IO-Field 23.03.2023
(a2022003) 2143.63 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 zip
19.10.2021 666.20 KB 

Libraries

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