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

<table>
<thead>
<tr>
<th>Description</th>
<th>Item No.</th>
<th>Pack.</th>
<th>Unit</th>
</tr>
</thead>
<tbody>
<tr>
<td>EtherCAT® Fieldbus Coupler, ID Switch</td>
<td>750-354/000-001</td>
<td>1</td>
<td></td>
</tr>
<tr>
<td>EtherCAT® Fieldbus Coupler, ID Switch</td>
<td>750-354/000-002</td>
<td>1</td>
<td></td>
</tr>
<tr>
<td>Diagnostics</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

### Accessories

<table>
<thead>
<tr>
<th>Description</th>
<th>Item No.</th>
<th>Pack.</th>
<th>Unit</th>
</tr>
</thead>
<tbody>
<tr>
<td>Miniature WSB Quick marking system</td>
<td>248-501</td>
<td>5</td>
<td></td>
</tr>
<tr>
<td>with marking</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

### Approvals

- Conformity marking: CE
- Marine applications: GL (750354/000001)
- UL 508
- ANSI/ISA 12.12.01

### System Data

<table>
<thead>
<tr>
<th>Description</th>
<th>Details</th>
</tr>
</thead>
<tbody>
<tr>
<td>No. of couplers connected to Master</td>
<td>limited by EtherCAT specification</td>
</tr>
<tr>
<td>Transmission medium</td>
<td>Shielded twisted pair</td>
</tr>
<tr>
<td></td>
<td>S/FTP, F/FTP or SF/FTP, 100 Ω, Cat 6</td>
</tr>
<tr>
<td>Baud rate</td>
<td>100 Mbit/s</td>
</tr>
<tr>
<td>Transmission performance</td>
<td>Class D acc. to EN 50173-1</td>
</tr>
<tr>
<td>Buscoupler connection</td>
<td>2 x RJ-45</td>
</tr>
<tr>
<td>Protocols</td>
<td>EtherCAT® (direct mode)</td>
</tr>
</tbody>
</table>
### Technical Data

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

### General Specifications

<table>
<thead>
<tr>
<th>Parameter</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Operating temperature</td>
<td>0 °C ... +55 °C</td>
</tr>
<tr>
<td>Wire connection</td>
<td>CAGE CLAMP®</td>
</tr>
<tr>
<td>Cross sections</td>
<td>0.08 mm² ... 2.5 mm² / AWG 28 ... 14</td>
</tr>
<tr>
<td>Strip lengths</td>
<td>8 ... 9 mm / 0.33 in</td>
</tr>
<tr>
<td>Dimensions (mm) W x H x L</td>
<td>65 x 50 x 97</td>
</tr>
<tr>
<td>Weight</td>
<td>152 g</td>
</tr>
<tr>
<td>Storage temperature</td>
<td>-25 °C ... +85 °C</td>
</tr>
<tr>
<td>Relative air humidity (no condensation)</td>
<td>95 %</td>
</tr>
<tr>
<td>Vibration resistance</td>
<td>acc. to IEC 60068-2-6</td>
</tr>
<tr>
<td>Shock resistance</td>
<td>acc. to IEC 60068-2-27</td>
</tr>
<tr>
<td>Degree of protection</td>
<td>IP20</td>
</tr>
<tr>
<td>EMC immunity of interference</td>
<td>acc. to EN 61000-6-2, marine applications</td>
</tr>
<tr>
<td>EMC emission of interference</td>
<td>acc. to EN 61000-6-3, marine applications</td>
</tr>
</tbody>
</table>