

# MOVI-C® FIELD CONTROLLER



## Decentralized motion and logic controller

The MOVI-C® FIELD CONTROLLER can be operated on virtually all standard industrial fieldbus systems (PROFINET, EtherNet/IP™, Modbus TCP). As an EtherCAT®/SBusPLUS master, the MOVI-C® FIELD CONTROLLER controls drive axes in the “DSI” communication variant and other EtherCAT® devices. Up to 16 drive axes can be controlled and, thanks to optimized startup and diagnostics, the level of engineering work required is significantly reduced. The MOVI-C® FIELD CONTROLLER ensures systems can be easily modularized, thus easing the load on fieldbus networks.

<b>Features/equipment</b>	<ul style="list-style-type: none"> <li>- Decentralized motion and logic controller</li> <li>- Can be linked to almost all conventional control systems (PROFINET, EtherNet/IP™, Modbus TCP)</li> <li>- Suitable for many applications thanks to housing's high degree of protection</li> <li>- High-performance and user-friendly startup: MOVIRUN® software platform modules for parameterization and programming</li> <li>- Operation: MOVIKIT® software modules, function blocks for straightforward speed control, positioning, mechanically coupled axes and much more besides</li> <li>- PROFI-safe routing to the axis modules</li> <li>- 1 × Ethernet (10/100 BaseT) for engineering or TCP/IP and UDP via IEC 61131-3</li> <li>- 1 × EtherCAT®/SBusPLUS master with integrated star distributor</li> <li>- Optional: DO1 switch disconnecter for disconnecting lower-level drive axes</li> </ul>
<b>MOVI-C® FIELD CONTROLLER standard</b>	<ul style="list-style-type: none"> <li>- 1 × CAN</li> <li>- Status display for PLC and fieldbus</li> <li>- SD memory card</li> <li>- ≤ 2 interpolating axes and ≤ 6 auxiliary axes</li> <li>- Web visualization</li> </ul>
<b>MOVI-C® FIELD CONTROLLER advanced</b>	<ul style="list-style-type: none"> <li>- 1 × CAN</li> <li>- 1 × RS485</li> <li>- Status display for PLC and fieldbus</li> <li>- SD memory card</li> <li>- ≤ 8 interpolating axes and ≤ 8 auxiliary axes</li> <li>- Web visualization</li> </ul>
<b>Communication variants</b>	<ul style="list-style-type: none"> <li>- FHX.5A-N: PROFINET slave</li> <li>- FHX.5A-E: EtherNet/IP™ slave, Modbus TCP slave</li> </ul>
<b>Benefits</b>	<ul style="list-style-type: none"> <li>- End-to-end software platform featuring the controllers in the control cabinet technology range from SEW-EURODRIVE</li> <li>- Reduces system complexity and the capacity utilization of fieldbus networks thanks to straightforward modularization</li> <li>- Easy to replace lower-level drive components thanks to integrated data management</li> <li>- Supports condition monitoring</li> <li>- MOVIKIT® single- and multi-axis modules that have been tested in advance reduce costs and complexity; alternatively, users can also write their own programs</li> <li>- Simple, centralized data management using auto reload function for axis replacement</li> </ul>

<b>Plug connectors</b>	<ul style="list-style-type: none"> <li>- DC 24 V with M12 plug connector (5-pin, L-coded) as an option</li> <li>- Fieldbus connection (M12, 4-pin, D-coded)</li> <li>- EtherCAT®/SBus<sup>PLUS</sup> connection (depending on configuration: MINI-IO, M12 or M23 hybrid plug connector)</li> <li>- AC 400 V connection for transferring to the lower-level drive axes</li> <li>- Optional: PA M23 hybrid plug connector (AC 400 V and DC 24 V)</li> <li>- Optional: PAC M23 hybrid plug connector (AC 400 V, DC 24 V and communication)</li> </ul>
<b>Certifications/conformity</b>	CE (Europe) / CMIM (Morocco) / RCM (Australia) / UA.TR (Ukraine) In preparation: EAC (Russia, Belarus and Kazakhstan) / UL-approved (USA and Canada)
<b>Areas of application</b>	<ul style="list-style-type: none"> <li>- From simple to intelligent conveyor lines or for other multi-axis applications (in combination with drive technology in the DSI communication variant)</li> <li>- A large number of applications with pretested software modules are possible</li> </ul>

**Dimensions and weight**

**MFC1. with FHX25A**



**MFC1. with FHX45A**



3.7 kg

3.7 kg

**Ambient conditions**

<b>Degree of protection</b>	IP65 to EN 60529
<b>Ambient temperature</b>	-25 °C to +60 °C (reduction in power from 40 °C)
<b>Proof of mechanical strength</b>	3M7/5M2 to DIN EN 60721-3-3/5

**Example installation of MOVI-C® FIELD CONTROLLER with PAC hybrid cable**

