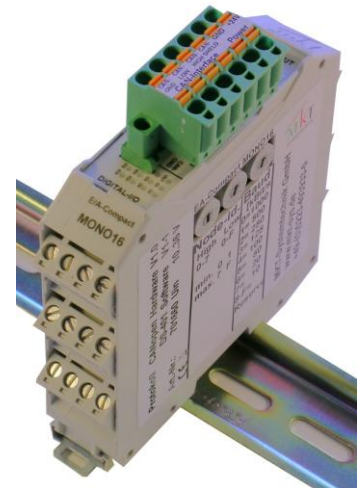


## The I/O-compact-series: MONO 16

Compact input-/output-modules for CAN /CANopen

### Advantages at a glance

- Compact slim line enclosure
- Protection class IP20
- Selection of baud rate / address via DIP-switch
- 8 digital inputs, 4 digital outputs (max. 1A short circuit protected); fix
- 4 selectable digital inputs- or outputs (individually programmable via SDO or rotary switches)
- Power supply, CAN-Bus and digital I/O's electrically isolated
- Each digital output drives 1,0 A and is short circuit protected
- separate power supply for the outputs (stop-function)
- Read back of the output status via the inputs (safety technology)
- Generation of SYNC-messages (adjustable *SYNC-interval* via SDO or DIP-switch)
- Integrable functions:
  - Counter with compare function (automatic *Set/Reset* of outputs through the module)
  - Signal conditioning for analog-inputs by integration and digital 2. high-order filter
  - PID-controller
  - customized functions



## The I/O-compact-series: MONO 16

### Technical features

<b>Technical data:</b>	<ul style="list-style-type: none"> <li>≡ CAN-Bus: Electrically isolated (optional without isolation)</li> <li>≡ Bus-speed: 10 kbit/s...1 Mbit/s, max. 15 m bus length</li> <li>≡ Power supply: 9...30 Vdc</li> <li>≡ Operating temperature: 0...50 °C</li> </ul>
<b>System software:</b>	<p>CANopen-Mode (Standard):</p> <ul style="list-style-type: none"> <li>≡ DS 401</li> <li>≡ PDO-Mapping</li> <li>≡ Transmission method: synchron, eventdriven or additional cyclic asynchron</li> <li>≡ SYNC-Messages</li> <li>≡ Node Guarding/Heart Beat</li> <li>≡ Life Guarding</li> <li>≡ Emergency-telegram</li> <li>≡ NMT-Boot-up: Minimum Boot-up or Extended Boot-up</li> </ul> <p>Other functions:</p> <ul style="list-style-type: none"> <li>≡ Customizing on demand</li> </ul>
<b>Digital inputs:</b>	<ul style="list-style-type: none"> <li>≡ 8 x DI</li> <li>≡ Low = 0...5 Vdc / High = 13...30 Vdc</li> <li>≡ Input resistance: 3...4 kΩ</li> <li>≡ Status indication via yellow LED</li> </ul>
<b>Digital outputs:</b>	<ul style="list-style-type: none"> <li>≡ 4 x DO</li> <li>≡ High-side switch</li> <li>≡ Load current max. 1,0 A</li> <li>≡ R<sub>on</sub> = 200 mΩ</li> <li>≡ Status indication via yellow LED</li> <li>≡ Error indication via red LED (short circuit or excess temperature)</li> </ul>
<b>Selectable input/ outputs:</b>	<ul style="list-style-type: none"> <li>≡ 4 x DI or 4 x DO</li> <li>≡ Selection via SDO or rotary switch</li> </ul>
<b>Electronic:</b>	<ul style="list-style-type: none"> <li>≡ Processor: LPC2292 / ARM7</li> <li>≡ EEPROM: 256 kByte Flash</li> <li>≡ RAM: 16 kByte SRAM</li> </ul>
<b>Enclosure:</b>	<ul style="list-style-type: none"> <li>≡ Protection class: IP20</li> <li>≡ Material: Polyamide</li> <li>≡ Colour: grey (others on demand)</li> <li>≡ Mounting: DIN rail TS 35 mm</li> <li>≡ Connector: CAN-Bus = Combicon-connector</li> <li>≡ Dimensions: 110 (h) x 85 (w) x 22 (d) mm</li> </ul>

**Order no.: 70160**

Changes due to technical standards is subject without prior notice

Release: 8/2008