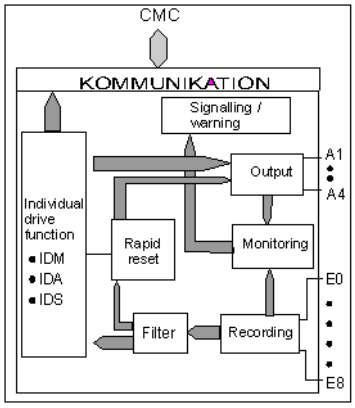
# CBC 10 - Output module - control

## From version 1.0

## General




The configuration of the CBC 10 with individual drive modules (IDM) is carried out with the help of Engineering Station and is described in detail in the technical description for the function block (30/72-2990). All parameters are enclosed in brackets [ .. ] in this technical information.

Further system-specific information is contained in the following technical information:

- "Hardware components"; "Electromagnetic compatibility and earthing"; "Melody cabinet, inputs, accessories and construction technology"

# Technical data

The standard data are valid for all modules of the Symphony process control system. The following data are a short summary with additional information for specific types.

The inputs are suitable for standard binary signals as well as for interrogating contacts and 3 or 4 wire proximity switches. Configuration occurs mutually for all inputs of a section.

**Standard binary inputs and inputs for 3 or 4 wire proximity switches:**

Signal input level: $U_{IL}$= -3 ... +5 V or open

$U_{IH}$ = +12 ... +35 V

Signal input current: $I_{IH}$ = 0,75 mA typ.

**Inputs for contacts:**

Signal input level $U_{IL}$ = -30 ... +5 V

$U_{IH}$ = +12 ... +35 V

Interrogation voltage at open contacts: $U_K$= +48 V typ.

Input voltage for open contacts $U_{IL}$ = -24 V typ.

Contacts closed: $U_{IH}$ = +24 V typ.

Signal input current, contact closed: $I_{IH}$ = 4 mA typ.

Signal input level for control by binary outputs: $U_{IL}$ = -10...+5 V

$U_{IH}$ = +12...+35 V

Signal input current: $I_{IH}$ = 6 mA max.

$I_{IL}$ = 2 mA typ.

With this a standard binary output can branch to 4 standard binary inputs in the case of an AND contact interrogation input.

**Standard binary outputs:**

*The standard binary outputs are suitable for the direct control of a light emitting diodes in H&B miniature control room components (List 91).*

Signal output level: $U_{OL}$= 0 ... +2 V (Output open)

$U_{OH}$ = +16 ... +33 V

Signal output current: $I_{OH}$ < 10 mA (2), short-circuit proof (K) and overload proof

**Power outputs (P-switching):**

Binary outputs for command initiation and supplying contacts

*In order that the command monitoring CM does not respond without reason, the resistance (R-switching device + R-supply lines) between CMD and CCMD must not exceed 5000 Ohms. For greater resistances, command monitoring must be blocked.*

Signal output level: $U_{OL}$ = high-impedance output

$U_{OH}$ = +16.5 ... +33 V

60 mA)

Signal output current: $I_{OH}$ < 150 mA, short-circuit proof (K) and overload proof 24 V

**Power outputs (N-switching):**

Binary outputs for control commands: *In order that the command monitoring CM does not respond without reason, the resistance (R-switching device + R-supply lines) between CMD and CCMD must not exceed 5000 Ohms. For greater resistances, command monitoring must be blocked.*

-60 mA)

$U_{OH}$ = Output blocked

Signal output current: $|I_{OL}|$ <-150 mA, P-short-circuit proof and overload proof

**Standard fault warning element:**

**LED signalling**

LED-A (green): module active

LED-S (red): total fault

LED-TS (red): partial fault

**Auxiliary power supply:**

Supply voltage: $U_V$= +20 ... +33 V

Fuse protection: G-fusible element 5 x 20; 3.15 A anti-surge (M3, 15E)

Current usage: $I_V$ = 240 mA typ.

Supply voltage for contacts and proximity switches: see power outputs

**Ambient conditions:**

Operating area temperature: 0 ... +70 °C

Relative humidity: 75% annual average, no condensation

Transport / storage area temperature: -30 ... +85 °C

Relative humidity: 95 %, condensation permitted

**Front panel:**

LED displays: LED-A, LED-S and LED -TS

Safety fuse holder: Si 1

**General data:**

Space requirements: 8 grids 7 HE (G-Format)

Weight: 460 g

## Ordering Information

| Catalog No. | | | | | | | | Description | |
|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | |
| 73112-4- | 0 | 7 | 8 | 8 | 7 | 1 | 2 | CBC 10 - Output module - controll | |
| | | | | | | | | | |
| Additional Order Information | | | | | | | | | |
| | | | | | | | | Former System Packet<br>(Indicate Version) | BA-No. 601 |
| | | | | | | | | | |
| Necessary Accessories: | | | | | | | | | |
| 72199-4- | 0 | 7 | 4 | 5 | 2 | 1 | 3 | CI 100 Connection Unit, grey, Standard Version, Basic | |
| 72199-4- | 0 | 7 | 8 | 9 | 4 | 4 | 1 | Cable Clamps | |
| | | | | | | | | | |
| | | | | | | | | | |

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