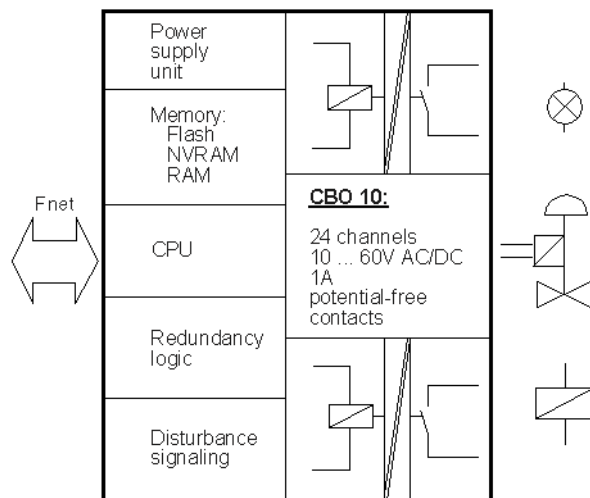


## CBO 10 - Binary output module

### Features / application



- 24 binary outputs with enclosed relays (NO contacts)
- Current carrying capacity of the relays: max. 1 A
- Channel-by-channel isolation of the outputs
- Module is capable of redundant operation
- Monitoring of the module
- Counter for switching cycles (channel by channel)

The CBO 10 binary output module is used to activate the following devices:

- Coupling relays
- Lamps
- Pneumatic drives
- Solenoid valves

## Technical data

Contact potential difference:	$U = 10 \dots 60 \text{ V AC/DC}$
Current carrying capacity:	$I = 1 \text{ A}$
Life expectancy (no load):	$0.0 \text{ V} / 0.0 \text{ A} (1.0 \times 10^7 \text{ switching cycles}); \text{no load}$
Life expectancy (resistive load):	$33 \text{ V} / 0.5 \text{ A} (1.0 \times 10^6 \text{ switching cycles})$ $33 \text{ V} / 1.0 \text{ A} (0.3 \times 10^6 \text{ switching cycles})$ $48 \text{ V} / 0.3 \text{ A} (1.0 \times 10^6 \text{ switching cycles})$ $60 \text{ V} / 0.1 \text{ A} (1.0 \times 10^6 \text{ switching cycles})$ $60 \text{ V} / 1.0 \text{ A} (0.1 \times 10^6 \text{ switching cycles})$
Life expectancy (inductive load):	$33 \text{ V} / 0.05 \text{ A} (1 \times 10^6 \text{ switching cycles})$
Minimum contact load:	$I \Rightarrow 2 \text{ mA}$ where $U \Rightarrow 15 \text{ V}$
Operate time:	$\leq 10 \text{ ms}$
Release time:	$\leq 10 \text{ ms}$
Bounce time:	$\leq 2 \text{ ms}$
Isolation:	Channel by channel
Voltage test:	$1500 \text{ V}$ (contact / coil) $500 \text{ V}$ (contact / contact)
Ambient temperature:	$0 \dots 50 \text{ }^\circ\text{C}$ (temperature for venting of module in rack)
Voltage supply - Supply voltage: - Fuse:	$U_{v1}/U_{v2} = 20 \dots 33 \text{ V DC}$ Glass fuse link $5 \times 20$ $3.15 \text{ A}$ slow-blowing T $3.15 \text{ H}$
Permitted overvoltages for voltage supply:	$35 \text{ V}$ (for $t = 1 \text{ s}$ ) $45 \text{ V}$ (for $t = 10 \text{ ms}$ )
Current drain (reference current):	$150 \text{ mA}$ ( $U_v = 24 \text{ V}$ ; coincidence factor: 0.75)
Power loss:	Max. $P = 2.4 \dots 8.4 \text{ W}$ (where $U_v = 24 \text{ V}$ )

## Ordering Information

Catalog No.								Description	
72133-4-	0	7	8	8	7	3	3	CBO 10 - Binary output module	
Additional Order Information									
								Former System Packet (Indicate Version)	BA-No. 601
Necessary Accessories:									
72199-4-	0	7	4	5	2	1	3	CI 100 Connection Unit, grey, Standard Version, Basic	
	0	7	4	5	2	0	3	CI 101 Connection Unit, grey, Standard Version, Redundant 8 TE	
72199-4-	0	7	8	9	4	4	1	Cable Clamps	



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