

The CM+CANopen system has been designed with a pneumatic input end-plate that can contain all the electronic equipment, indicators and connectors. This system is very compact and sturdy and is housed in a thick aluminium body that protects sensitive components impact and falls. The end-plate is available in two electric versions: one handling up to 64 solenoids (64 OUTs) and one handling up to 64 solenoids (64 OUTs) and 32 inputs (32 INs).

Grounding is recommended to protect the electronic circuit against electric or electrostatic charges.

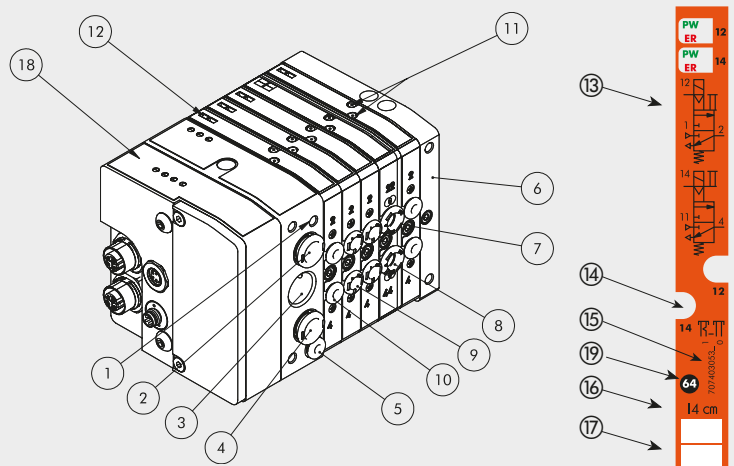
N.B. For the system to handle more than 32 pilots (33 to 64), it must be made up of valves bearing a label marked 64. If one or more valves are not marked 64, each island cannot handle more than 32 pilots.



TECHNICAL DATA	
Field buses	CANopen - Complies with CiA DS401 specifications
Factory settings	Module name: Cmseries Address 4
Addressing	Hardware via dip Switch
Voltage range	24VDC $\pm$ 10%
Maximum number of pilots (Out)	64
Maximum number of valves	* 64 (same as the max. no. of pilotos)
Maximum number of inputs (INs)	32
Icc bus supply current	Nominal Icc 30 mA - Instantaneous Icc (< 5 ms) 640 mA
Icc valve supply current	Instantaneous Icc (< 5 ms) 1100 mA
Maximum absorption of a valve island with 64 monostable valves	Nominal Icc with 900 mA OFF valves – nominal Icc with 2700 mA ON valves
Protections	Module protected against overload and polarity reversal. Outputs protected against overloads and short-circuits
Connections	Field bus: M12 Male inputs, 5 pins, A-coded; M12 Female outputs, 5 poles, A-coded supply: M8 4 pin input: M8 3 pin
BUS diagnostics	Using local LEDs and software messages Outputs: using local LEDs and status bytes Inputs: using local LEDs and status bytes N.B.: Refer to the user manual for a detailed description
Data bit value	0 = not enabled 1 = enabled Disabled
Output status in the absence of communication	
* N.B.: In case of "slaves" islands, the CANopen "clever center" can contain up to 34 valves (pilots can be even up to 64). See page B2.132 for general technical data	

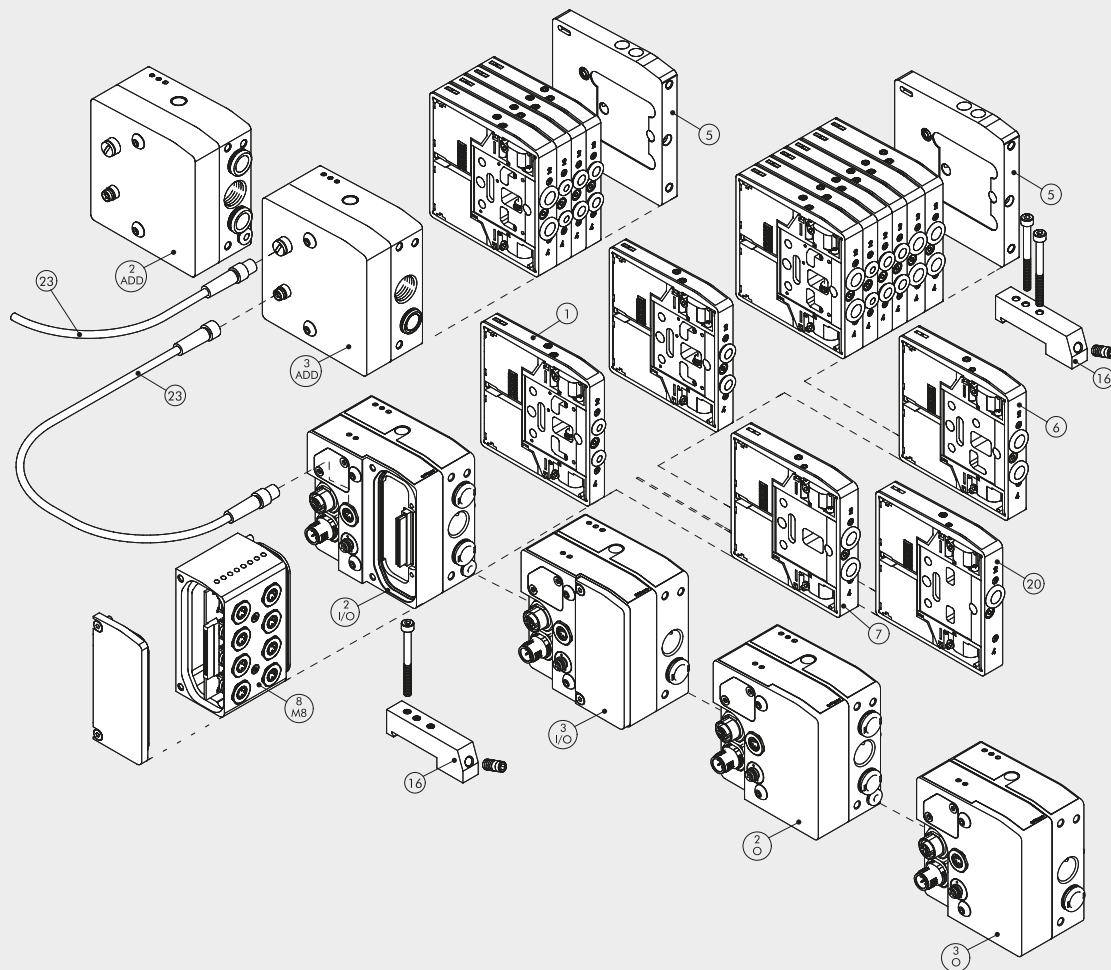
COMPONENTS

- ① Exhaust - Solenoid pilot 82/84
- ② Valve supply - port 1
- ③ Threaded connection of exhausts 3/5
- ④ Valve supply - port 11
- ⑤ Electrical control supply X
- ⑥ Blind end-plate
- ⑦ Screw for valve wall-mounting
- ⑧ ⑨ ⑩ Utility port for pipe $\varnothing$ 4, 6 or 8 mm
- ⑪ Manual control
- ⑫ LED (LED on, solenoid valve energised)
- ⑬ Pneumatic symbol
- ⑭ Identification of the monostable or bistable manual control
- ⑮ Valve ordering code
- ⑯ Valve identification code
- ⑰ Blank space for valve number
- ⑱ CM CANopen end-plate
- ⑲ 64 = when present, it means that the valve is suitable for installation on islands with a field bus with up to 64 pilots, otherwise the limit is 32 pilots.



VALVE ISLAND CONFIGURATION

The numbers permit rapid identification of the function and assembly position of the single elements represented as follows.
Refer to page B2.154 for valves, intermediate elements and common accessories.



WIRING DIAGRAM

