CM + Profinet IO

The CM + Profinet IO 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 from 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	Profinet IO - 100 Mbit/s - Full-duplex
	Supports RT communication, Shared Device, Identification & Maintenance 1-4
Factory settings	Module name: Cmseries
	Address IP 0.0.0.0
Addressing	Software DCP
Voltage range	24VDC ± 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 120 mA - Instantaneous Icc (< 2 ms) 450 mA
Icc valve supply current	Instantaneous Icc (< 2 ms) 900 mA
Maximum absorption of a valve island with	Nominal Icc with 900 mA OFF valves – nominal Icc with 2700 mA ON valves
64 monostable valves	
Protections	Module protected against overload and polarity reversal. Outputs protected against overloads and short-circuits
Connections	Field bus: 2 M12 Female, D-coded, internal switch
	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
Output status in the absence of communication	Disabled

See page B2.146 **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 Ø 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 Profinet IO 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.