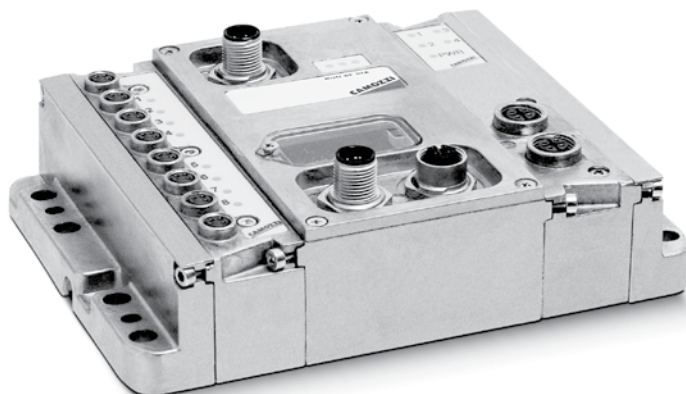# Individual Fieldbus nodes CP2, CC2, CD2

New

2

Interface with the most widespread Fieldbus Protocols: Profibus-DP; CANopen and DeviceNet

» Maximum flexibility in use

» Mounting in arduous conditions

» Easily modifiable.

Electric output modules that can be coupled are: connection D-Sub- 37 pin for 8; 16; 24; 32 outlets or with two M12 connections for 4 outlets. Input modules have 8xM8 connections and allow the connection of sensors rated up to a max of 100mA. All communication modules are connected by plug and socket granting the maximum flexibility, and addressing is done by rotary switch for easy configuration.

The serial module CX2 can be used both integrated on different valve series (Series 3, Series H) and as external component. This device allows the connection of up to a max of 64 solenoids and 64 inputs on the base unit, so applications other than pneumatics are a possibility. Thanks to its aluminium support structure, this solution is IP65 rated with high mechanical strength. It is therefore suitable for mounting in arduous conditions.

GENERAL DATA

Number of digital output	64
Number of digital input	64
Maximum input absorption	1,5 A
Maximum output absorption	3 A
Signalling Led	CP2: 1 led green RUN, 1 led red DIA, 1 led red BF
	CD2: 1 led green IO, 1 led red NS, 1 led red MS
	CC2: 1 led green RUN, 1 led red DIA, 1 led red BF
FieldBus Protocol	CP2: Profibus-DP
	CD2: DeviceNet
	CC2: CanOpen
Maximum number of nodes	CP2: 32/127
	CD2: 64
	CC2: 127
Maximum Baud rate	CP2: 12 Mbit/sec
	CD2: 500 Kbit/sec
	CC2: 1 Mbit/sec
Logical supply voltage	24VDC (-15% / + 20%)
Power supply voltage	24VDC (for the tolerance, consider the total loads of the connected inputs)
Protection	overload and reverse polarity
Protection class	IP65
Conform with standards	EN-61326-1 EN-61010-1
Operating temperature	0-50°C
Material	Aluminium
Weight	250 g
Dimensions	130x68 mm

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2

CODING EXAMPLE

CP2	3A	BC

CP2	CP2 = Fieldbus Profibus Dp CC2 = Fieldbus CANOpen CD2 = Fieldbus DeviceNet
3A	0 = no module nA = numbers of modules 8 Input (n= 1÷8)
BC	0 = no module nB = numbers of modules 4 output M12 duo nC = numbers of modules 8 output sub-d 37 pin nD = numbers of modules 16 output sub-d 37 pin nE = numbers of modules 24 output sub-d 37 pin nF = numbers of modules 32 output sub-d 37 pin (es. 3 modules A + 2 modules E= 3A2E)

Individual Fieldbus nodes   **New**

see the drawing on following page

Mod.	FieldBus Protocol
CP2	Profibus-DP
CC2	DeviceNet
CD2	CANopen

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System description

The principal features are: electrical connections on the same side as the pneumatic connections, Bus-In Bus-Out system for connection to the Fieldbus network, double electrical supplies, one for control and the other for power. This version is capable of handling 64 inputs and 64 outputs.

The output modules can be positioned on the right hand side of the node and they provide either 2 x M12 or 37 pole Sub-D connection. In the same way it is possible to position the input modules on the left hand side, which provide 8 inputs with M8 connection.

All the elements can be easily inserted because of their direct connection to the plate.

It is possible to use this node directly integrated on pneumatic solutions such as Series 3 and Series H.
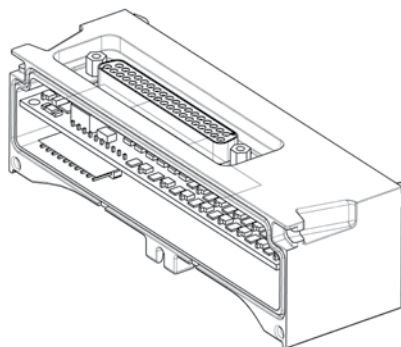
Each node is part of the serial system.

The addressing is done via rotary switches, with the Leds indicating the working state.

Manuals and configuration files are available on our website: www.camozzi.com in the Section Products/Download.

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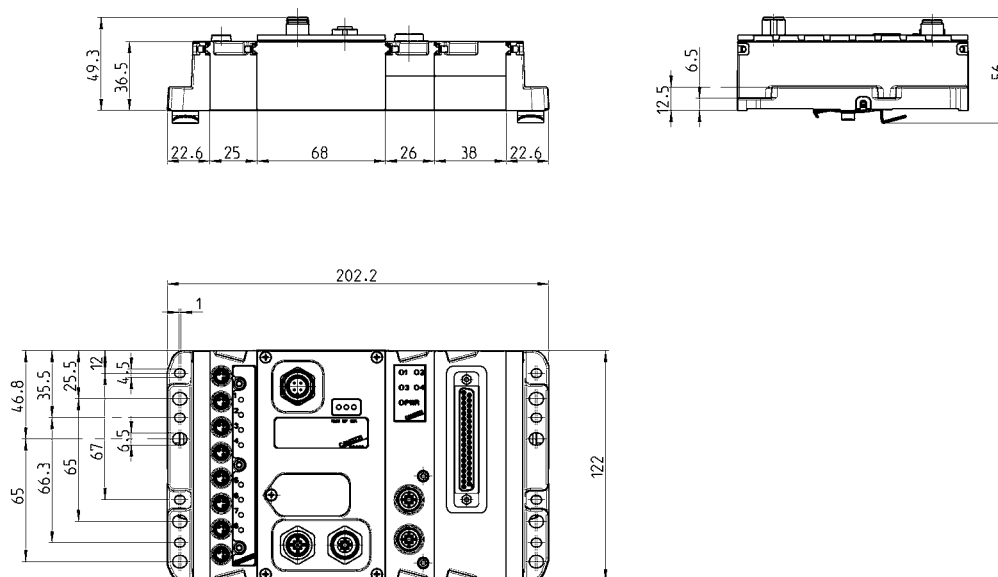
## Digital output module (D-SUB - 37 pin) Mod. ME-xxxx-DD

New

	ME-0032-DD	ME-0024-DD	ME-0016-DD	ME-0008-DD
Number of digital outputs	32	24	16	8
Connection	D-SUB 37 poles	D-SUB 37 poles	D-SUB 37 poles	D-SUB 37 poles
Connectors	1	1	1	1
Dimensions	130 x 25 mm	130 x 25 mm	130 x 25 mm	130 x 25 mm
Type of signal	24 V DC PNP	24 V DC PNP	24 V DC PNP	24 V DC PNP
Protection	Overload (150 mA in outlet)	Overload (150 mA in outlet)	Overload (150 mA in outlet)	Overload (150 mA in outlet)
Power consumption without load	5 mA	5 mA	5 mA	5 mA
Protection class	IP 65	IP 65	IP 65	IP 65
Operating temperature	0°C ÷ 50 °C	0°C ÷ 50 °C	0°C ÷ 50 °C	0°C ÷ 50 °C
Material	Aluminium	Aluminium	Aluminium	Aluminium
Weight	100 g	100 g	100 g	100 g

Digital output module 2xM12 DUO, (4 outputs), Mod. ME-0004-DL

New
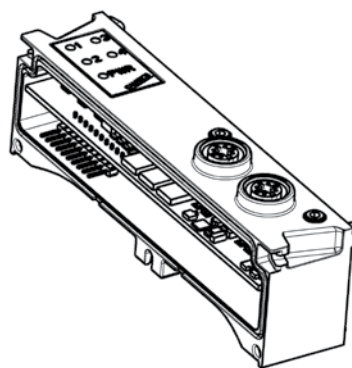
	ME-0004-DL
Number of digital outputs	4
Connection	M 12 5 Poles Duo
Number of connections	2 Female connectors M 12
Dimensions	130 x 25
Signalling	1 Yellow Led for each single outlet 1 Green Led for power supply presence on the module
Outlet voltage	24 V DC +/- 10%
Signal	24 V DC PNP
Protection	Overload - Supply voltage (150 mA)
Power consumption without load	10 mA
Protection class	IP 65
Temperature	0°C ÷ 50 °C
Material	Aluminium
Weight	100 g

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Digital input Module Mod. ME-0800-DC (8 digital inputs)

New
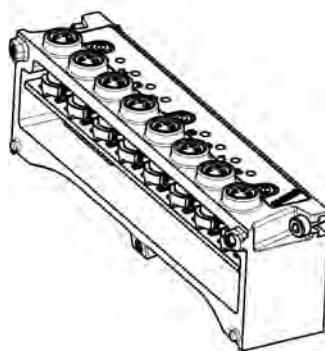
Number of digital inputs	8
Connection	M8 - 3pin
Module dimension	130x25 mm
Signalling led	yellow led for each inlet
Sensors supply	24VDC +/- 10%
Protection	overloaded (400 mA every 4 sensors)
Power consumption of the module without load	10 mA
Type of signal	PNP
Protection class	IP65
Operating temperature	0-50°C
Material	Aluminium
Weight	110 g

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Mounting brackets

DIN EN 50022 (mm 7,5 x 35 - width 1)
Suitable for all manifolds.
The following is supplied:
2x plates
2x screws

Mod.
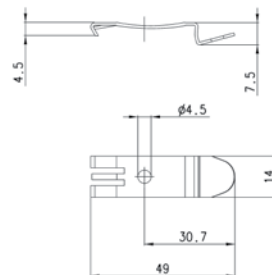
PCF-E520

Power supply connector

Mod.

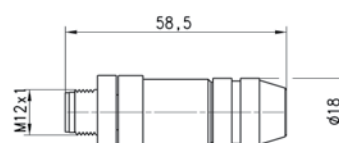**CS-LF04HB**

Connector for Bus-In

Mod.	
CS-MF05HC	ProfiBus DP
CS-LF05HC	CANOpen - DeviceNet

Connector for Bus-Out

New

Mod.	
CS-MM05HC	Profibus DP
CS-LM05HC	CANOpen - DeviceNet

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2

Power supply angular connector

34,6

Ø20

39,5

14

Mod.	
CS-LR04HB	

Bus-In angular connector

34,6

Ø20

39,5

14
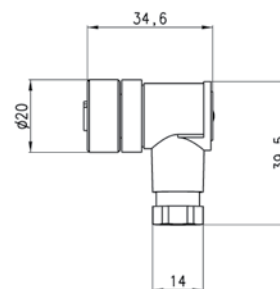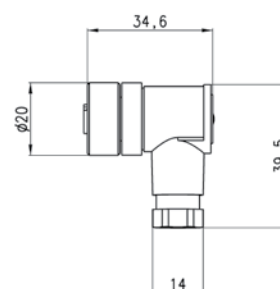
Mod.	
CS-MR05HC	Profibus DP
CS-LR05HC	CANOpen - DeviceNet

Male connector with terminal resistence

New

56,3

Ø10,7

M12x1
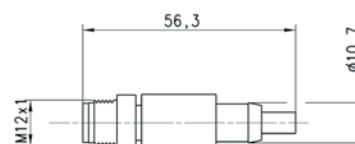
Mod.	
CS-MQ05H0	Profibus DP
CS-MP05H0	CANOpen - DeviceNet

Blanking plug for inlets/outlets module

New

Mod.	
CS-DFTP	Blanking plug M8 for inlets module
CS-LFTP	Blanking plug M128 for outlets module

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2

Mounting brackets

DIN EN 50022 (mm 7,5 x 35 - width 1)
Suitable for all manifolds.
The following is supplied:
2x plates
2x screws

Mod.
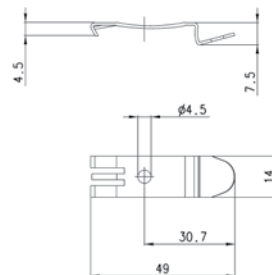
PCF-E520

Power supply connector

Mod.

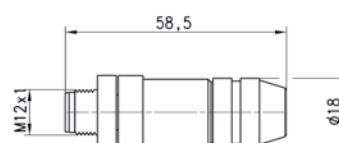**CS-LF04HB**

Profibus connector

Mod.	
CS-MF05HC	ProfiBus Dp
CS-LF05HC	CANOpen - DeviceNet

Connector for Bus OUT   **New**

Mod.	
CS-MM05HC	Profibus
CS-LM05HC	CANOpen - DeviceNet

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Power supply angular connector

| 34,6 |
| Ø20 | 39,5 |
| 14 |

Mod.	
CS-LR04HB	

Bus-In angular connector

| 34,6 |
| Ø20 | 39,5 |
| 14 |
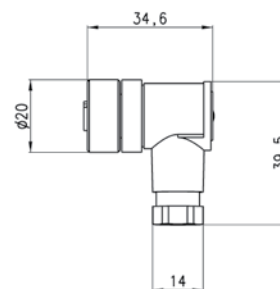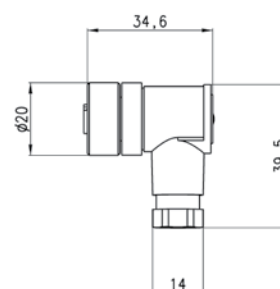
Mod.	
CS-MR05HC	Profibus
CS-LR05HC	CANOpen - DeviceNet

Male connector with termination resisence

New

| 56,3 | Ø10,7 |
| M12x1 | |
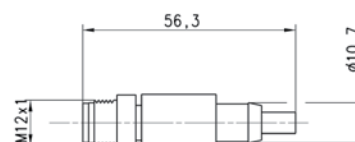
Mod.	
CS-MQ05H0	Profibus
CS-MP05H0	CANOpen - DeviceNet

Blanking plug for inlets/outlets module

New

Mod.	
CS-DFTP	Blanking plug M8 for inlets module
CS-LFTP	Blanking plug M128 for outlets module

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