

Series D valve islands, Size 2, Multipole and Fieldbus



Fieldbus connection with the most common communication protocols PROFIBUS-DP, PROFINET, CANopen, EtherNET/IP, EtherCAT and IO-Link Multipole connection with 25 or 44 pins Valve functions: 2x3/2; 5/2; 5/3 CC, CO, CP



Thanks to the large range of options available, the Series D2 valve island represent an excellent solution for all those applications that require pneumatic and electrical functions in restricted spaces.

The different electrical connection possibilities allow to create Islands with a high number of valve positions and different pressure zones. Moreover, the fieldbus version can manage both digital and analog electric input and output signals.

- » Valve size 16 mm
- » Compact design
- » Individual modular subbases in technopolymer
- » Highly expandable electrically and pneumatically
- » Flexibility in connecting and exchanging I/O modules
- » COILVISION technology to monitor performance parameters
- » Same subbase for monostable and bistable valves
- » Possibility to transmit operational data through WLAN
- » Blinking LEDs indicating different types of operating faults

Small dimensions, high flows, subbases with individual pneumatic and electric modules, an easy subbase connection system, constant diagnosis and monitoring of performance parameters make this series a particularly innovative product.

One of the features of this series is the monitoring function regarding the correct operating of the solenoid valve.

The electronics installed both in the subbase and in the Sub-D and multi-serial connection module, enables to constantly monitor the efficiency of the driving coil of the solenoid valve.

Possible variations with respect to the ideal operating conditions, for example a higher power consumption, variation in response times and an increased temperature are indicated through different ways of blinking by the LED on the solenoid valve and by an electric alert signal that is sent to the PLC through the Sub-D module connecting cable or, in case of the multi-serial connection module, directly through the communication protocol.

Manual, instruction sheet and configurator are available on the site http://catalogue.camozzi.com or by means of the QR code on the product's label.

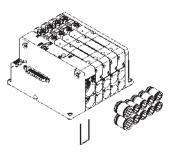




NEUMATIC SECTION	
alve construction	spool with seals
alve functions	5/2 monostable and bistable 5/3 CC; CO; CP
	2 x 3/2 NC
	2 x 3/2 NO
	1 x 3/2 NC +1 x 3/2 NO
Aaterials	spool: AL spool seals: HNBR
	other seals: NBR
	body: AL
	end caps: polymer subbase size 1: polymer
Connections	outlet 2 and 4, tube Ø6, Ø8, Ø10
	supply 1: tube Ø10, Ø12, Ø14
	supply 12/14: tube Ø4
	exhaust 3 and 5: tube Ø10, Ø12, Ø14
	exhaust 82/84: tube Ø4
emperature	0 ÷ 50°C
Air characteristics	compressed, filtered and non-lubricated air in class [7:4:4] according to ISO 8573-1:2010.
	In case lubrication should be necessary, only use oils with a maximum viscosity of 32 Cst and the version with external servo-pilo supply.
	The air quality of the servo-pilot supply must be of class [7:4:4] according to ISO 8573-1:2010 (do not lubricate).
Jalve sizes	2 = 16 mm
Operating pressure	-0,9 ÷ 10 bar
Pilot pressure	3 ÷ 7 bar
	4,5 ÷ 7 bar (with operating pressure exceeding 6 bar for the version 2x3/2)
Flow rate	950 NL/min
Mounting position	any position
Protection class	IP 65
ELECTRICAL SECTION	
MULTIPOLE VERSION	
Type of Sub-D connector	25 or 44 pins
Max. absorption	0.8 A (with Sub-D connector 25 pins)
	1 A (with Sub-D connector 44 pins)
Supply voltage	24 V DC +/- 10%
rapply voltage	244 00 / 10%
Max. number of coils to operate	22 on 11 valve positions (with Sub-D connector 25 pins)
innellin - LED	38 on 19 valve positions (with Sub-D connector 44 pins)
Signalling LED	Multipole: green LED - presence of power red LED - anomaly
	Valve: yellow LED - presence of power
	blinking yellow LED - operating fault
ELCTRICAL SECTION	
FIELDBUS VERSION	
General data	see Multi-serial Modules section on the next pages
Max. absorption	2.5 A
Supply voltage	24 V DC +/-10% logic supply
Many number of soil-t	24 V DC +/-10% power supply
Max. number of coils to operate	128 on 64 valve positions
Max. number of digital inputs Max. number of analog inputs	128 16
Max. number of digital outputs	128
Max. number of analog outputs	16
O-Link version	
Max n° of coils to operate Input and Output	64 on 32 valve positions No
Type of port	Class B
ODD Configuration file	up to 12, 24 or 32 valve positions per island
The IO-Link module on the valve island	
s auto-configured to operate with the right IODD)	
More information can be found at	

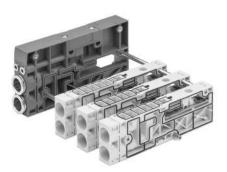
PNEUMATIC CONNECTION

The subbases, in their different configurations, include tube connection cartridges. Through the removal of fixing clips it is possible to replace these cartridges and adapt them to the necessary dimension. The pneumatic part is the same for both the Multipole and Serial version. The tie rods with different fixed lengths that unite the subbases, can be extended individually through additional tie rods for odd positions.



INTERMEDIATE SUBBASES

Intermediate subbases with a diaphragm or additional supply function allow to create diversified pressure and/or exhaust zones, add an incoming air flow and increase the exhaust flow. Furthermore there are subbases available that, besides the aforementioned functions, can interrupt the pneumatic actuation to the coils. This prevents, independently of the electric signal being present or not, to actuate the monostable and bistable valves. The intermediate subbases do not need to be calculated in the number of valve positions.



SERVOPILOT

The initial supply and exhaust base can be changed through rotating the upper device of the selected type of servo-pilot. The change from internal to external servo-pilot is obtained without replacing the initial base, this allows for example to include or section the island, adapting its operation also after its installation, for example with valves that operate with vacuum or reduced pressures. The arrow indicates the selected type of servo-pilot.





CONFIGURATOR

The island configuration is of minimum three positions including the possible base for additional supply and/or exhaust. The maximum number of positions depends on the selected type of electrical connection.

To correctly compose the commercial code and to download drawings, please use the configurator present at http://catalogue.camozzi.com in the sections "Configurators" or "Camozzi Partcommunity".



MULTIPOLE VERSION

The multipole version can be connected quickly and safely through the connecting cable with angled outlet of 25 or 44 pins to the electric Sub-D connector integrated in the island. The single modularity of the subbases allows to create islands with up to a maximum of 11 or 19 valve positions according to the type of connecting cable used.



FIELDBUS and IO-LINK VERSION

The new CX4 fieldbus module integrated in the Series D valve island enables to interface with the most common fieldbus protocols. Besides managing the pneumatic part (the same as the Multipole version) different kinds of electric modules can be managed. With this configuration it is possible to enlarge the pneumatic part up to a maximum of 64 valve positions with double command and the electric part up to 128 digital inputs and 128 digital outputs, besides 16 analog inputs and 16 analog outputs. Besides the standard voltage and current versions, the analog modules are also available in 2-channel Bridge, RTD and TC versions.

Also in the IO-Link version, the interface module is part of the Series CX4.

In this configuration, the I/O Modules cannot be integrated in the island, a maximum of 64 coils can be managed on 32 valve positions.

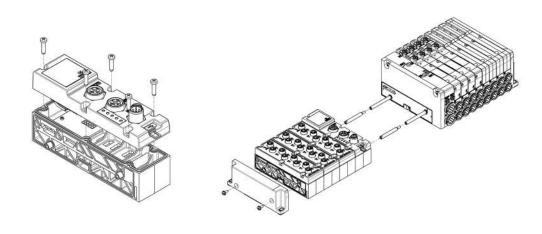


ELECTRICAL MODULE

The electric modules are composed of two parts: the base to connect the different modules, which is the same for all types, and different covers on which the connectors are positioned.

This solution enables to easily change the connection points with the sensors or functions of the machine.

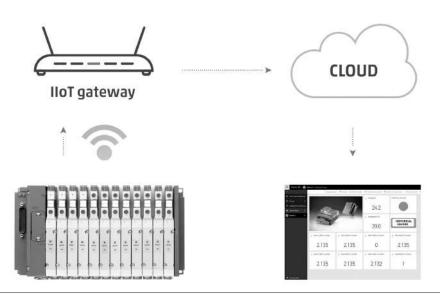
Also the electric modules, like the subbases in the pneumatic part, can be added or removed thanks to the modular connection system.



COILVISION

This is a standard function in all our valve islands with Multipole and Serial connection. Its purpose is to monitor the proper function of each solenoid valve individually, particularly the solenoid. The electronics installed in the subbase allows to constantly monitor the efficiency of the driving coil of the solenoid valve. Possible variations with respect to the ideal operating conditions, like for example a higher power consumption, different response times or an increased temperature, are reported by means of a blinking yellow LED of the interested solenoid. Besides the blinking of this LED, also a general red LED blinks located on the Sub-D module.

These indications are combined with an alert message sent to the PLC. By selecting code W from the "Interface" menu of the encryption code, besides the described signals, it is possible to gather all operational data of the islands and send them through WLAN to the corporate net or onto the Cloud to be analysed.



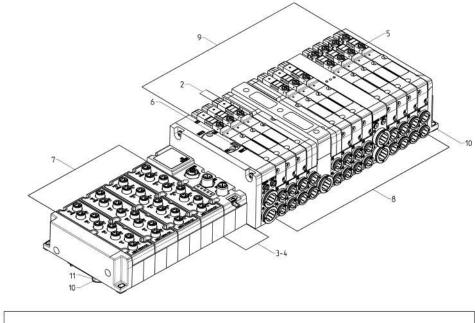




DM	MODULAR ISLAND	
С	VALVE C= VC Model	
2	SIZE: 2=16 mm	
01	PROTOCOL 01 = PROFIBUS 03 = CANopen 04 = Ethernet/IP 05 = Ethercat	06 = PROFINET 07 = IO-LINK (cannot be configured with input and output modules)
W	INTERFACE 0 = without interface W = WLAN	
R	MANUAL OVERRIDE P = push button R = with push and turn device	
Α	SERVO-PILOT SUPPLY A = internal B = external	
2A2Q	INPUT AND OUTPUT MODULES 0 = without A = 8 Digital inputs M8 B = 16 Digital inputs, terminal block connection C = 2 Analog inputs (config. 0-10V,±10V,0-20mA,4-20mA,±20mA) M12 D = 2 Analog inputs (config. 0-10V,±10V,0-20mA,4-20mA,±20mA), terminal block E = 2 Inputs, BRIDGE M12 F = 2 Inputs, BRIDGE, TERMINAL BLOCK CONNECTION G = 2 Inputs, RTD M12 (PT100, PT200, PT500, PT1000) H = 2 Inputs, RTD TERMINAL BLOCK CONNECTION (PT100, PT200, PT500, PT1000) L = 2 Inputs, TC M12 (THERMOCOUPLES) M = 2 Inputs, TC TERMINAL BLOCK CONNECTION (THERMOCOUPLES) Q = 8 Digital outputs M8 R = 16 Digital outputs, terminal block connection T = 2 Analog outputs (config. 0-10V,±10V,0-20mA, 4-20mA,±20mA), M12 U = 2 Analog outputs (config. 0-10V,±10V,0-20mA,4-20mA,±20mA), terminal block (Push-in)	
2B2BQH4DX4B	SUBBASES B = Cartridges tube Ø6 C = Cartridges tube Ø8 D = Cartridges tube Ø10 SUBBASE DIAPHRAGM Q = Diaphragm on channels 1, 3, 5 R = Diaphragm on channels 1 S = Diaphragm on channels 3 and 5 WITH DIAPHRAGM AND EXTERNAL SERVO-PILOT SUPPLY QT = Diaphragm on channels 1, 3, 5; 12/14 External RT = Diaphragm on channels 1, 12/14 External ST = Diaphragm on channels 1, 12/14 External ST = Diaphragm on channels 3, 5; 12/14 External WITH DIAPHRAGM AND INTEGRATED SILENCER QH = Diaphragm on channels 1, 3, 5 RH = Diaphragm on channels 1, 3, 5 RH = Diaphragm on channels 3, 5 SUBBASE FOR ADDITIONAL FLOW X = Supply (1) and exhausts (3, 5) XH = Supply (1) and exhausts (3, 5) with integrated silencer INTERFACE SUBBASE FOR ADDITIONAL FLOW WITH EXTERNAL SERVO-PILOT SUPPLY: XT = Additional supply (1) and exhausts (3, 5) FOR POWER SUPPLY K = separation of power supply	
3M2L3M2B2C	VALVES M = 5/2 Monostable B = 5/2 Bistable C = 2x3/2 NC A = 2x3/2 NO G = 2x3/2 (NC+NO)	V = 5/3 CC K = 5/3 CO N = 5/3 CP L = Free position
E	TERMINAL PLATES Fittings on tube ports 1, 3, 5 D = Cartridge tube Ø10	
R	FIXING TYPE = direct R = DIN rail	

The choice of the cartridge made in the Terminal Plates section is also valid for the diaphragm and additional sub-bases

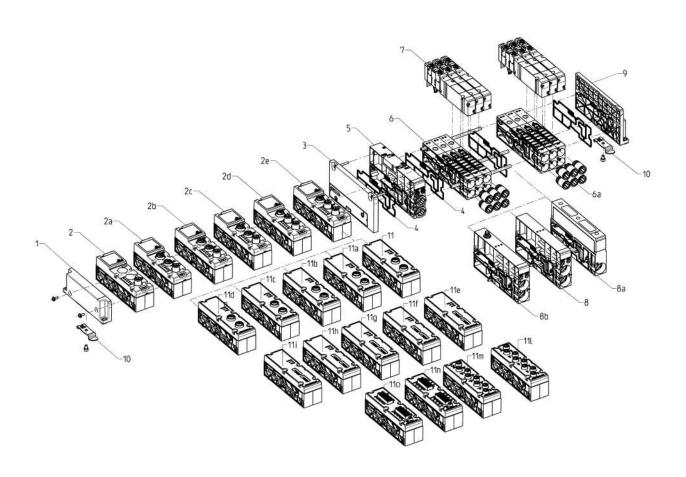
FIELDBUS VERSION CODING



. 1	2	3	4 5	6		7		8		9		10	1
D MIC	12	011	VIE	Δ	- 1	2A2Q	1-[2B2DQH4BX4D	7- [3M2L3M2B2C] - [D	T

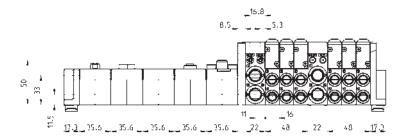
(1)	VALVES	(2)	SIZE	(3)	PROTOCOL	(4)	INTERFACE	(5)	MANUAL OVERRIDE	(6)	SERVO-PILOT
	VC		2		01		0		Р		А
					03		W		R		В
					04						
					05						
					06						
					07						
(7)	INPUT AND OUTPUT MODULES			(8)	SUBBASES	(9)	VALVES	(10)	TERMINAL PLATES	(11)	FIXING
	А				В		М		D		R
	В				С		В		DS		
	С				D		С		E		
	D				SUBBASE WITH DIAPHRAGM		Α		F		
	E		Q		Q		G				
	F			R			V				
	G				S		K				
	Н				SUBBASE WITH DIAPHRAGM AND EXTERNAL SERVO-PILOT SUPPLY		N				
	L				QT		L				
	М				RT						
	Q				ST						
	R				SUBBASE WITH DIAPHRAGM AND SILENCER						
	Т				QН						
	U				RH						
					SH						
					SUBBASE FOR ADDITIONAL FLOW						
					Х						
					ХН						
					INTERFACE SUBBASE FOR ADDITIONAL FLOW WITH EXTERNAL SERVO-PILOT SUPPLY						
					XT						
					FOR POWER SUPPLY						
					К						

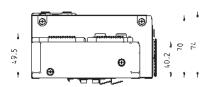
FIELDBUS version COMPONENTS

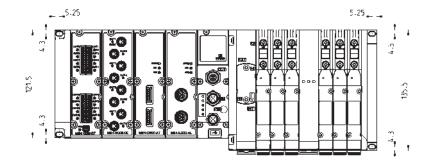


COMPONENTS			
1	Terminal module	9	Terminal plate
2	IO-Link module	10	Mounting bracket for DIN rail
2a	PROFINET module	11	2 Analog voltage/current Inputs, M12
2b	EtherCAT module	11a	2 Analog load cell Inputs, M12
2c	EtherNet/IP module	11b	2 Analog thermocouple Inputs, M12
2d	CANopen	110	2 Analog RTD Inputs, M12
2e	PROFIBUS module	11d	2 analog outputs, M12
3	Fieldbus module interface	11e	2 Analog voltage/current Inputs, terminal block
4	Interface seal	11f	2 Analog load cells Inputs, terminal block
5	Initial pneumatic supply module	11g	2 Analog thermocouple Inputs, terminal block
6	Modular subbase size 2	11h	2 Analog RTD Inputs, terminal block
6a	Interchangeable quick-release couplings	11i	2 analog outputs, terminal block
7	Solenoid valve size 2	11l	8 Digital Inputs
8	Additional module to convey supply and exhaust channels	11m	8 Digital Outputs
8a	Module to supply and to silence the exhaust channel	11n	16 Digital Inputs
8b	Module to separate power supply	110	16 Digital Outputs

FIELDBUS version DIMENSIONS







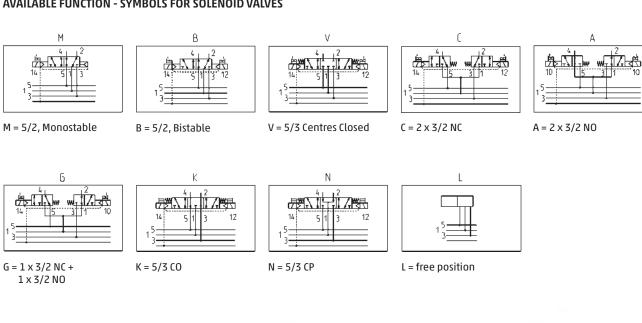
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CODING EXAMPLE

D	2	E	VC	-	M	P
D	SERIES					
2	SIZE: 2 = 16 mm					
E	VERSION: E = solenoid valve					
VC	COMPONENT: VC = plugin valve					
M	TYPE OF SOLENOID VALVE M = 5/2 monostable B = 5/2 bistable C = 2 x 3/2 NC A = 2 x 3/2 NO G = 2 x 3/2 (NC+NO) V = 5/3 CC K = 5/3 CO N = 5/3 CP					
P	MANUAL OVERRIDE: P = push button R = with push and turn dev	vice				

AVAILABLE FUNCTION - SYMBOLS FOR SOLENOID VALVES





Free valve position L

The supply includes: 1 fake valve

2 fixing screws



Mod.

D2EVC-L

INTERMEDIATE SUBBASES CODING EXAMPLE

D	АМ	2	S	-	QH	-	D	T
---	----	---	---	---	----	---	---	---

D	SERIES
AM	ACCESSORIES AM = modular accessories
2	SIZE: 2 = 16 mm
S	COMPONENT: S = modular subbase
QH	INTERMEDIATE DIAPHRAGM SUBBASE Q = diaphragm on channels 1, 3, 5 R = diaphragm on channel 1 S = diaphragm on channels 3, 5
	DIAPHRAGM WITH EXTERNAL SERVO-PILOT SUPPLY QT = diaphragm on channels 1, 3, 5; 12/14 external RT = diaphragm on channels 1; 12/14 external ST = diaphragm on channels 3, 5; 12/14 external
	DIAPHRAGM WITH INTEGRATED SILENCER QH = diaphragm on channels 1, 3, 5 RH = diaphragm on channel 1 SH = diaphragm on channels 3, 5
	SUBBASE FOR ADDITIONAL FLOW X = supply (1) and exhausts (3,5) XH = supply (1) and exhausts (3,5) with integrated silencer
	INTERFACE SUBBASE FOR ADDITIONAL FLOW WITH EXTERNAL SERVO-PILOT SUPPLY XT = additional supply (1) and exhausts (3, 5)
	FOR POWER SUPPLY K = separation of power supply
D	VERSION: D = cartridge tube Ø10 E = cartridge tube Ø12 F = cartridge tube Ø14 T = without cartridge
T	TIE RODS = without tie rods T = with tie rods

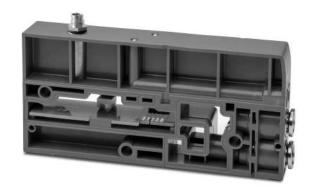


MODULE K TO SEPARATE POWER SUPPLY

This module allows to interrupt and provide a separate power supply to the subsequent solenoid valves besides additional supply and exhaust.

You only need to connect the +24V to one of the three pins

- 1 = +24V 3 = +24V 4 = +24V





GENERAL DATA		
Connection	M8 3 pins	
Dimensions	135,5 x 22 mm	
Signalling	None	
Supply	24 V DC (+/- 10%)	
Protection class	IP 65	
Temperature	0°C ÷ 50°C	
Material	technopolymer	
Weight	340 g	

AVAILABLE FUNCTIONS - SUBBASE TYPES









R

Q

S

Χ









RT

QT

ST

XT









RH

QH

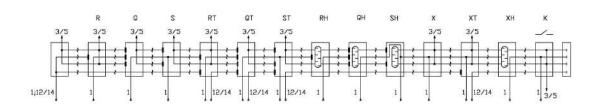
SH

XH



Κ

- R = diaphragm on channel 1 Q = diaphragm on channels 1, 3, 5
- S = diaphragm on channels 3, 5
- X = additional supply channel 1 and exhaust channels 3, 5
- RT = diaphragm on channels with external supply 12/14
- QT = diaphragm on channels with external supply 12/14
- ST = diaphragm on channels with external supply 12/14
- XT = additional supply channel 1, 12/14 and exhausts channels 3, 5
- RH = diaphragm on channel 1 with integrated silencer
- QH = diaphragm on channels 1, 3, 5 with integrated silencer SH = diaphragm on channels 3, 5 with integrated silencer
- XH = additional supply channel 1 and exhaust channels 3, 5 with integrated silencer
- K = Separation of power supply

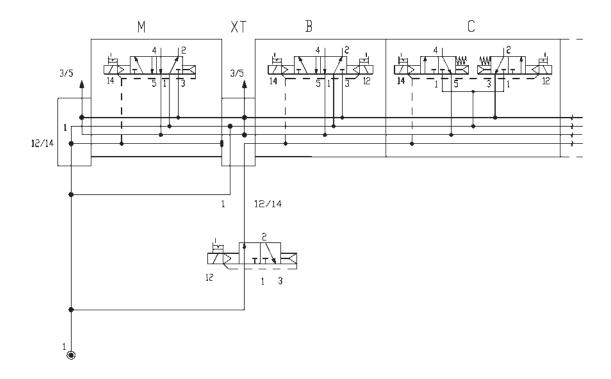


CAMOZZI Automation

INTERMEDIATE SUBBASE FOR A SEPARATE SERVO-PILOT SUPPLY

In order for the solenoid valves to operate, they need an electric signal and pressure on channel 12/14. This intermediate subbase, available with different diaphragm functions on channels 1 and 3/5, always has channel 12/14 closed, the solenoid valves assembled on the subbases in subsequent positions cannot operate if there is no pressure. In the example below the solenoid valve type M is pneumatically supplied on all channels, solenoid valve B is installed next to subbase XT, which has channel 12/14 closed. The solenoid valve 3/2 which is not part of the island, is always activated under regular operating conditions (as indicated in the image) enabling all solenoid valves to operate properly. In case of any problems, by removing the actuation of this solenoid valve, it is possible to interrupt the functioning of the subsequent positions.

In this condition, the 2x3/2 valves assume the rest position.



VALVE SUBBASES CODING EXAMPLE

D	AM	2	S	-	Α	T			
D	SERIES	SERIES							
ΑM	ACCESSORIES AM = modula	ACCESSORIES AM = modular accessories							
2	SIZE 2 = 16 mm								
S	COMPONENT S = modulars	ubbase							
Α		TYPE OF CONNECTION T = subbase without cartridges C = Cartridges tube Ø 8 D = Cartridges tube Ø 10							
T	TIE RODS = without tie	e rods		T = with ti	ie rods				



SUPPLY MODULE/SERVOPILOT CODING EXAMPLE

D	AM	2	0	-	KD	
D	SERIES					
AM	ACCESSORIES AM = modular accessories					
2	SIZE 2 = 16 mm					
0		SERVO-PILOT SUPPLY 0 = internal / external				
KD	INITIAL PNEUMA KD = cartridge t KE = cartridge t KF = cartridge t	ube Ø12	ATE			



CODING EXAMPLE

D	AM 2	T - Q 0			
D	SERIES				
AM	ACCESSORIES AM = modular accessories				
2	SIZE 2 = 16 mm				
T	COMPONENT T = electrical terminal plate				
Q	TYPE OF TERMINAL PLATE M = multipole 25 pins	Q = multipole 44 pins			
0	INTERFACE 0 = without interface	W = WLAN			



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Pneumatic terminal plate

The supply includes: 1 terminal plate 3 fixing screws



Mod.

DAM20-RT

Connection interface between electrical section and valves

The supply includes: 1 terminal plate

- 3 fixing screws for valve section
- 2 fixing screws for serial section
- 1 interface



ME4-00D2-DI

Closing terminal of fieldbus electrical section

The supply includes: 1 terminal plate

- 2 fixing screws



Multi-serial modules



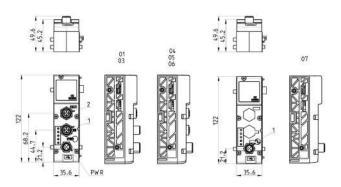
On this module there are three connectors, one for supply on which it is possible to separate logic supply from power supply and two connectors for the inlet and outlet of the protocol.

A Micro-USB port enables to interface with a PC and by means of the UVIX configuration software it is possible to monitor and configure both the Multi-serial Module and the I/O Modules. Connectable on the left side. These can be configured as PNP or NPN for the Digital Inputs, while for the Analog Inputs, both voltage and current is possible.

The configuration of the Multi-serial Module and the components connected to it is also possible through different communication protocols.

In the event of malfunction or breakage, even without power supply, a NFC function enables to download the configuration data, by means of a special App, on an external device to transmit them to a new Multi-serial Module.

The supply includes 2 tie-rods



WLAN / NO WLAN	Mod.	Fieldbus Protocol	1	2	Bus-IN connector	Bus-OUT connector
CX401W-0/CX4010-0	01	PROFIBUS	Bus-OUT	Bus-IN	M12 B 5-pin male	M12 B 5-pin female
CX403W-0/CX4030-0	03	CANopen	Bus-OUT	Bus-IN	M12 A 4-pin male	M12 A 4-pin female
CX404W-0/CX4040-0	04	EtherNet/IP	Bus-IN	Bus-OUT	M12 D 4-pin female	M12 D 4-pin female
CX405W-0/CX4050-0	05	EtherCAT	Bus-IN	Bus-OUT	M12 D 4-pin female	M12 D 4-pin female
CX406W-0/CX4060-0	06	PROFINET	Bus-IN	Bus-OUT	M12 D 4-pin female	M12 D 4-pin female
CX407W-0/CX4070-0	07	IO-link	Bus	-	M12 B 5-pin male	-

Digital power output module Mod. ME4-0008-DC and ME4-0016-DT



The supply includes 2 tie-rods.

The digital output module is connected on the left side of the Multi-serial module and can be positioned as desired with other both Digital and Analog I/O devices.

Available in two versions:

- 8 M8 3 pin connectors
- (Push-In) Terminal block for the connection of 16 outputs (8+8). The wire connection part is removable from the module.

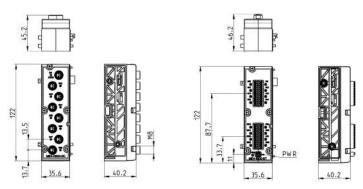
For both versions, the outputs can be configured as PNP or NPN by means of a software UVIX.

(the standard version is configured as PNP)

The 8 output M8 version can supply 24W and is supplied directly by the valve island.

In the terminal block version, the power supply must always be supplied externally with 12-32V voltages, on the 2-pole connector. A maximum absorption of 48 W is possible.

The module is equipped with diagnostics (Status).



Mod.	Coding reference	N° of digital outputs	Connection	Number of connectors	Dimensions	Signalling			Max power per digital output	Type of signal	Protection class	Operating temperature	Weight
ME4-0008-DC	Q	8	M83-pin female	8	122 x 35,6 mm	8 yellow led 1 red led	24 V DC	24 W	3 W	NPN/ PNP	IP65	0 ÷ 50°C	100 g
ME4-0016-DT	R	16	2 terminal blocks 24-pin (Push-in)	-	122 x 35,6 mm	8 yellow led 1 red led	12-32 V DC	48 W	3 W	NPN/ PNP	IP20	0 ÷ 50°C	100 g

Digital power output module Mod. ME4-0008-DC and ME4-0016-DT



The supply includes 2 tie-rods.

The digital output module is connected on the left side of the Multi-serial module and can be positioned as desired with other both Digital and Analog I/O devices.

Available in two versions:

- 8 M8 3 pin connectors
- (Push-In) Terminal block for the connection of 16 outputs (8+8). The wire connection part is removable from the module.

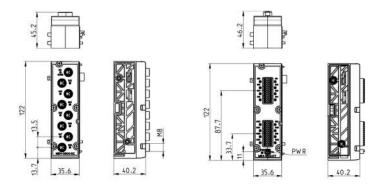
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In the terminal block version, the power supply must always be supplied externally with 12-32V voltages, on the 2-pole connector. A maximum absorption of 48 W is possible.

The module is equipped with diagnostics (Status).



Mod.	Coding reference	Number of digital inputs		Number of connectors		Signalling Sensor supply	Overvoltage protection	Absorption	n Type of I signal		Operating temperature	_
ME4-0800-DC	А	8	M8 3 pin female	8	122 x 35.6 mm	8 yellow led 24 V DC 1 red led	400 mA for 4 sensors	10 mA	PNP	IP65	0 ÷ 50°C	110 g
ME4-1600-DT	В	16	2 terminal blocks 24 pin (push-in)		122 x 35.6 mm	8 yellow led 24 V DC 1 red led	Internal: 800 mA for 16 sensors External: 2 A for 16 sensors	10 mA	PNP	IP20	0 ÷ 50°C	110 g

Analog input module Mod. ME4-C000-AL and ME4-C000-AT



The analog input module can be connected at the left of the CPU module and can be placed in any order with other Input/Output devices.

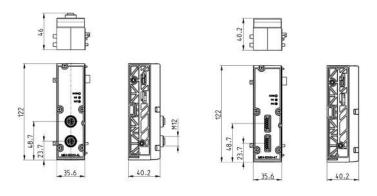
It is possible to configure every analog input as differential input 0-10V, ±10V,

0-20mA, 4-20mA, ±20mA with a resolution up to 16 bit.

External voltage of 24 V is available to supply the sensor connected (max 0,25A/channel). The output is protected against short-circuit.

The module is equipped with diagnostics (Status) and is available both in the version with two M12 connectors with 5 contacts, and in terminal block version with Push-in spring connection.

The supply includes 2 tie-rods.



Mod.	Coding reference	Number of analog inputs	Connection	Number of connectors		Signalling	Sensor supply	Overvoltage protection	Absorption	Protection class	Operating temperature	Weight
ME4-C000-AL	С	2 (Config. 0-10V,±10V,0- 20mA,4-20mA,±20mA)	M12 A 5-pin female	2	122 x 35,6 mm	2 yellow led 1 red led	24 V DC	500 mA shared between the two channels	max 20 mA	IP65	0 ÷ 50°C	110 g
ME4-C000-AT	D	2 (Config. 0-10V,±10V,0- 20mA,4-20mA,±20mA)			122 x 35,6 mm	2 yellow led 1 red led	24 V DC	500 mA shared between the two channels	max 20 mA	IP20	0 ÷ 50°C	110 g



Analog output module Mod. ME4-T000-AL and ME4-T000-AT



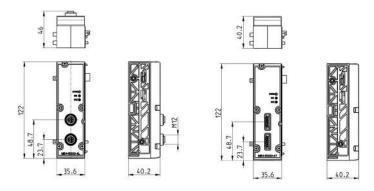
The analog output module can be connected at the left of the Multi serial module and can be placed in any order with other Input/Output devices.

It is possible to configure every analog output as 0-10V, 0-5V, 4-20mA, 0-20mA output with a resolution up to 16 bit.

External voltage of 24 V is available to supply the device connected (max 0,25A/channel). The output is protected against short-circuit.

The supply includes 2 tie-rods.

The module is equipped with diagnostics (Status) and is available both in the version with two M12 connectors with 5 contacts, and in terminal block version with Push-in spring connection.



Mod.	Coding reference	Number of analog outputs	Connection	Number of connectors	Dimension	Signalling	Supplied externally	Overvoltage protection	Absorption	Protection class	Operating temperature	Weight
ME4-T000-AL	T	2 (Config. 0-10V,0- 5V,0-20mA,4-20mA)	M12 A 5-pin female	2	122 x 35,6 mm	2 yellow led 1 red led	24 V DC	500 mA shared between the two channels	max 6 mA	IP65	0 ÷ 50°C	110 g
ME4-T000-AT	U	2 (Config. 0-10V,0- 5V,0-20mA,4-20mA)			122 x 35,6 mm	2 yellow led 1 red led	24 V DC	500 mA shared between the two channels	max 6 mA	IP20	0 ÷ 50°C	110 g



Analog input module Mod. ME4-E000-A*, ME4-G000-A* and ME4-L000-A*



The analog input module can be connected at the left of the CPU module and can be placed in any order with other, both digital and analog Input/Output devices.

Analog, 2-channel Bridge module (ME4-E000-A*):

Sensor data acquisition module with Resistor Bridge-type (4-wire) output, like strain gauge, non isolated.

The module is able to process the two channel inputs with gain factor from $% \left\{ 1\right\} =\left\{ 1\right\}$

1mV/V to 255mV/V, with a resolution of up to 24bit.

Supply voltage of the sensor +5V (max 0,05A/channel). The output is protected against short-circuit.

Analog, 2-channel RTD module (ME4-G000-A*):

RTD Temperature sensor data acquisition module, in 2/3/4-wire configuration, non isolated.

The module is able to process the following sensor types:

PT100, PT200, PT500, PT1000, Ni100, Ni120, Ni1000, with a resolution of up to 16bit. Typical measuring fields range from -200 \div +850 °C (PT sensors) and -60 \div +250 °C (Ni sensors)

Analog, 2-channel TC (thermocouples) module (ME4-L000-A*):

TC temperature sensor data acquisition module in 2-wire configuration, non isolated.

The module is able to process the following sensor types:

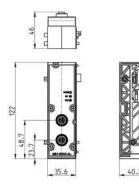
J, K, B, E, N, R, S, T, with a resolution of up to 16bit.

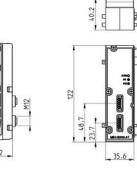
The supply includes 2 tie-rods.

All modules are equipped with diagnostics (Status).

The characteristics of the single input can be configured by a software for all analog module types.

The modules are available both in the version with two M12 connectors with 5 contacts, and in the terminal block version with Push-in spring connection.



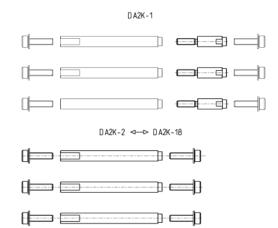




Mod.	Coding reference	Numbers of analog inputs	Connection	Number of connectors	Dimension	Signalling	Absorption	Protection class	Operating temperature	Weight
ME4-E000-AL	E	2 M12 bridge inputs	M12 A 5-pin female	2	122 x 35,6 mm	2 yellow led 1 red led	max 20 mA	IP65	0 ÷ 50°C	110 g
ME4-E000-AT	F	2 bridge inputs with terminal block (Push-in)	Terminal block (Push-in) 5-pin	2	122 x 35,6 mm	2 yellow led 1 red led	max 20 mA	IP20	0 ÷ 50°C	110 g
ME4-G000-AL	G	2 RTD M12 inputs	M12 A 5-pin female	2	122 x 35,6 mm	2 yellow led 1 red led	max 20 mA	IP65	0 ÷ 50°C	110 g
ME4-G000-AT	Н	2 RTD inputs with terminal block (Push-in)	Terminal block (Push-in) 5-pin	2	122 x 35,6 mm	2 yellow led 1 red led	max 20 mA	IP20	0 ÷ 50°C	110 g
ME4-L000-AL	L	2 TC M12 inputs	M12 A 5-pin female	2	122 x 35,6 mm	2 yellow led 1 red led	max 20 mA	IP65	0 ÷ 50°C	110 g
ME4-L000-AT	М	2 TC inputs with terminal block (Push-in)	Terminal block (Push-in) 5-pin	2	122 x 35,6 mm	2 yellow led 1 red led	max 20 mA	IP20	0 ÷ 50°C	110 g

Tie-rods for valve size 2





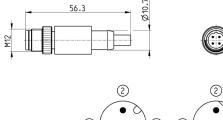
Mod.	Valve positions	NOTE
DA2K-2	2	*
DA2K-4	4	*
DA2K-6	6	*
DA2K-8	8	*
DA2K-10	10	*
DA2K-12	12	*
DA2K-14	14	*
DA2K-16	16	*
DA2K-18	18	*
DA2K-1	-	**

* Tie-rod. The supply includes 3 tie-rods and 6 screws. ** Joint bolt for odd positions.
The supply includes 3 joint bolts.

M12 male terminating resistor



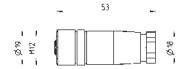
Mod.	description	type of connector	connection	Fieldbus
CS-MQ05H0	moulded terminating resistor	straight	M12 B 4 pin male - Pin 5 is not connected	PROFIBUS
CS-LP05H0	moulded terminating resistor	straight	M12 A 5 pin male - Pin 5 is connected	CANOpen



	(2)
3 (• • •) 1	3 (• • • 1)
• 5	• (5)
4)	4)
CS-LP05H0	CS-MQ05H0

Straight connector for power supply







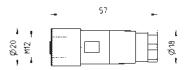


Mod.	description	type of connector	connection	cable length (m)
CS-LF04HB	for wiring	straight	M12 A 4 pin female - Pin 5 is not connected	-

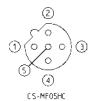
C₹ CAMOZZI

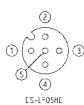
Straight female M12 connectors for Bus-IN







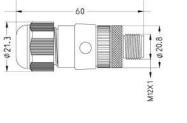




Mod.	description	type of connector	connection	Fieldbus
CS-LF05HC	for wiring	straight	M12 A 5 pin female	CANopen/IO-Link
CS-MF05HC	for wiring	straight	M12 B 5 pin female	PROFIBUS

Male M12 connectors for Bus-OUT and I/O modules





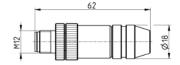




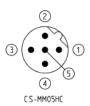
Mod.	description	type of connector	connection	Fieldbus
CS-LM05HC	for metal wiring	straight	M12 A 5 pin male	CANopen

Straight male M12 connectors for Bus-OUT PROFIBUS





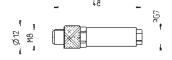




Mod.	description	type of connector	connection	Fieldbus
СЅ-ММО5НС	for metal wiring	straight	M12 B 5 pin male	PROFIBUS

3 pin male M8 wiring connector for digital input modules









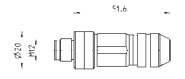
Mod.	description	type of connector	connection	cable length (m)
CS-DM03HB	for wiring	straight	M8 3 pin male	-



Male wiring connector for Bus-IN and Bus-OUT



For PROFINET, EtherCAT, EtherNet/IP





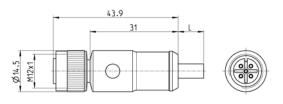


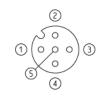
Mod.	description	type of connector	connection	cable length (m)
CS-SM04H0	for metal wiring	straight	M12 D 4 pin	-

Cable with M12 5 pin connector, 90°, female, shielded

For IO-Link power supply and signal







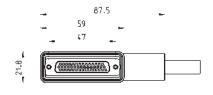
Mod.	Cable length (m)
CS-LF05HB-D200	2
CS-LF05HB-D500	5

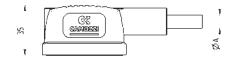
Right angle Sub-D female connector 25-44 pins

Protection class IP65



Mod.	_ø Α	PIN	cable length (m)
G25X1-3	10	25	3
G25X1-5	10	25	5
G25X1-10	10	25	10
G25X1-15	10	25	15
G25X1-20	10	25	20
G25X1-25	10	25	25
G44X1-3	13	44	3
G44X1-5	13	44	5
G44X1-10	13	44	10
G44X1-15	13	44	15
G44X1-20	13	44	20
G44X1-25	13	44	25

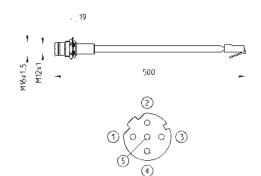




Adaptor and panel mount for Ethernet RJ45 to M12 D networks



For PROFINET, EtherCAT, EtherNet/IP

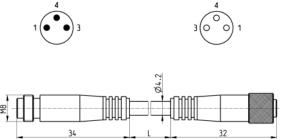


Mod.	description	type of connector	connection	cable length (m)
CS-SE04HB-F050	moulded cable	straight	RJ45 male, M12 D 4 pin female - Pin 5 is not connected	0.5

Extension with M8 connector, 3 pin male/female

Non shielded





Mod.	description	type of connector	connection	L [cable length] (m)
CS-DW03HB-C250	moulded cable	straight	M8 3 pin male / female	2.5
CS-DW03HB-C500	moulded cable	straight	M8 3 pin male / female	5

USB to Micro USB cable Mod. G11W-G12W-2



For the hardware configuration of the Camozzi products



Mod.	description	connections	material for outer sheath	cable length "L" (m)
G11W-G12W-2	black shielded cable 28 AWG	standard USB to Micro USB	PVC	2

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Adapter cable, M8 3-pin male - M12 4-pin female

Protection class: IP69K





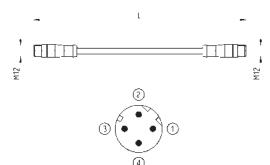


Mod.	description	max voltage	max current	Nr conn. wires	connections	outer sheath	cable "L" (m)
CS-AG03HB-C250	3-pin cable 24 AWG, high flexibility	50V AC / 60V DC	3 A	3	M8 3-pin male - M12 4-pin fem.	PUR black	2.5
CS-AG03HB-C500	3-pin cable 24 AWG, high flexibility	50V AC / 60V DC	3 A	3	M8 3-pin male - M12 4-pin fem.	PUR black	5

Cables with straight connectors

For PROFINET, EtherCAT, EtherNet/IP





Mod.	description	type of connector	connection	L [cable length] (m)
CS-SB04HB-D100	moulded cable	straight	2x M12 D 4 pin male	1
CS-SB04HB-D500	moulded cable	straight	2x M12 D 4 pin male	5
CS-SB04HB-DA00	moulded cable	straight	2x M12 D 4 pin male	10
CS-SB04HB-DD00	moulded cable	straight	2x M12 D 4 pin male	15
CS-SB04HB-DG00	moulded cable	straight	2x M12 D 4 pin male	20
CS-SB04HB-DJ00	moulded cable	straight	2x M12 D 4 pin male	25

CAMOZZ Automation

Interchangeable cartridges for subbases and terminal plates/diaphragms





TABLE LEGEND:

x = compatible with

VS = subbase version

VT = terminal plate/diaphragm version





Ø4 _





gΑ	VS	VT
6	×	
8	×	
10	×	×
12		×
14		×
	12	6 × 8 × 10 ×

M8 and M12 connector cover caps



For digital and analog input/output modules and subnet





Mod.	А	В	C [Connection]
CS-DFTP	10	11	M8
CS-LFTP	13.5	13	M12

Identification plates



The packaging contains 45 identification plates 9x5mm

Mod.

Mounting brackets for DIN rail

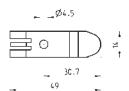


DIN EN 50022 (mm 7,5 x 35 - width 1)

Supplied with: 2x plates

2x screws M4x8 UNI 5931





Mod.

PCF-D1