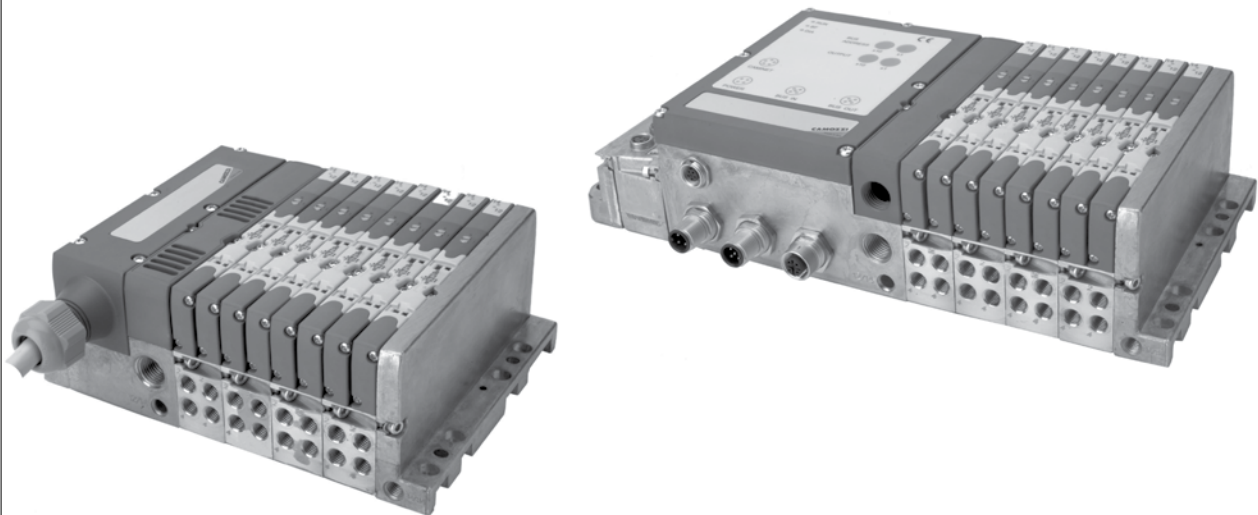


Valve Islands Series H

New

Multipole PNP and NPN
Profibus-DP, DeviceNet, CANopen



Thanks to new technology, a large range of options and total flexibility, both in pneumatic - and electrical components, the Series H valve island always offers the best solution for each application. The Series H has been designed to be used in numerous industrial fields, especially in automated systems.

The design and especially the constructional characteristics make the series H ideal in all applications where reliability and quality of the components used is essential for the operation of all industrial automated and dynamic systems.

- » Dimension 10,5 mm, modularity 2
- » Dimension 21 mm, modularity 1

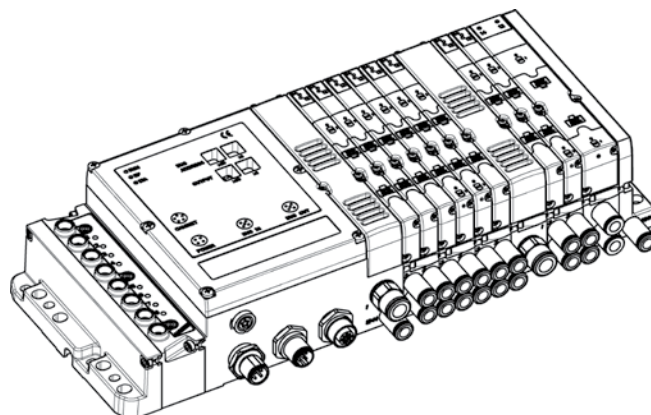
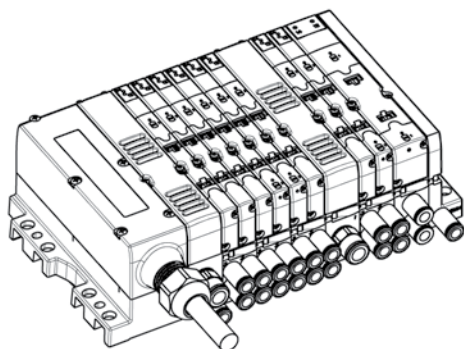
GENERAL DATA

New

Construction	spool with seals
Ways/positions	5/2 monostable and bistable 5/3 C.C. 2 x 2/2 N.O. 2 x 2/2 N.C. 1 x 2/2 N.C.+ 1 x N.O. 2 x 3/2 N.C. 2 x 3/2 N.O. 1 x 3/2 N.C.+ 1 x 3/2 N.O.
Materials	aluminium spool and HNBR seals brass cartridges technopolymer body and end covers aluminium subbase other NBR seals
Connections	M7 sub-base outputs modularity 1 G 1/8 sub-base outputs modularity 2 Fittings for tube \varnothing 4 ; 6 ; 8 (depending on size) Supply G 1/4 Pilot port M7 Exhaust 3/5 G 1/4 Exhaust 82/84 M7
Temperature	0 + 50°C
Air specifications	Filtered air class 5.4.4 according to ISO 8573.1 If lubrication is necessary use only oil with maximum viscosity 32 Cst.
Dimensions/sizes	10,5 mm 21 mm
Pressure	- 0,9 + 10 bar
Working pressure	3 + 7 bar
Flow rate, Qn	10,5 mm - 400 NI/min 21 mm - 700 NI/min
Voltage	24 V DC +/- 10%
Power consumption	0,5 W per coil
Duty cycle	ED 100%
Protection class	IP 65
Max. number of coils multipole	32
Max. number of coils - fieldbus	64
Max. number inputs - fieldbus	64
Mounting position	any position

Valve Islands Series H - Multipole and Expandable Fieldbus

New

**Multipole:**

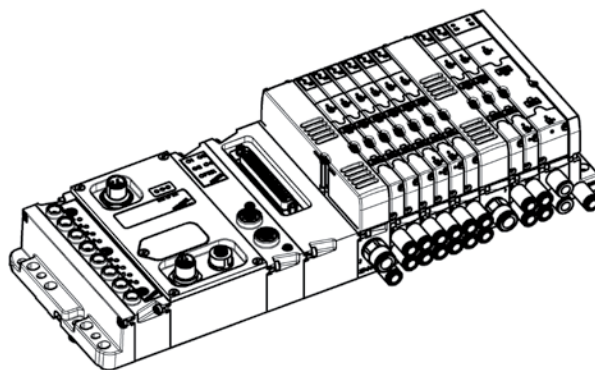
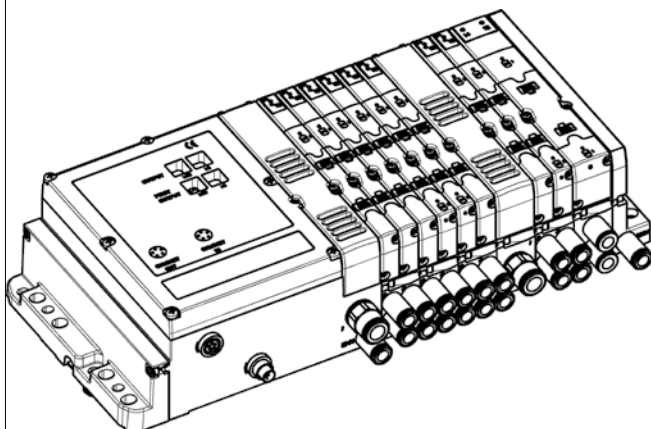
In this configuration Series H can be connected rapidly and safely thanks to the multipole connection with wired cable of sizes of 3 & 5 m (standard).

Expandable fieldbus:

This version enables a direct interface to fieldbus systems such as: Profibus-DP, DeviceNet and CANopen. The various types of electrical and pneumatic elements that can be connected, and the possibility to decentralise the expansion Islands gives this model extreme flexibility.

Valve Islands Series H - Expansion and Individual Fieldbus

New

**Fieldbus Expansion (local fieldbus):**

The Expansion islands can handle electrical and pneumatic outlets up to a 50 m distance from the Island that interfaces directly to the Fieldbus net. These expansions communicate with the expandable fieldbus unit (above) through a local fieldbus (Cam.I.Net) and are connected through pre-wired cables (9 poles) of different lengths.

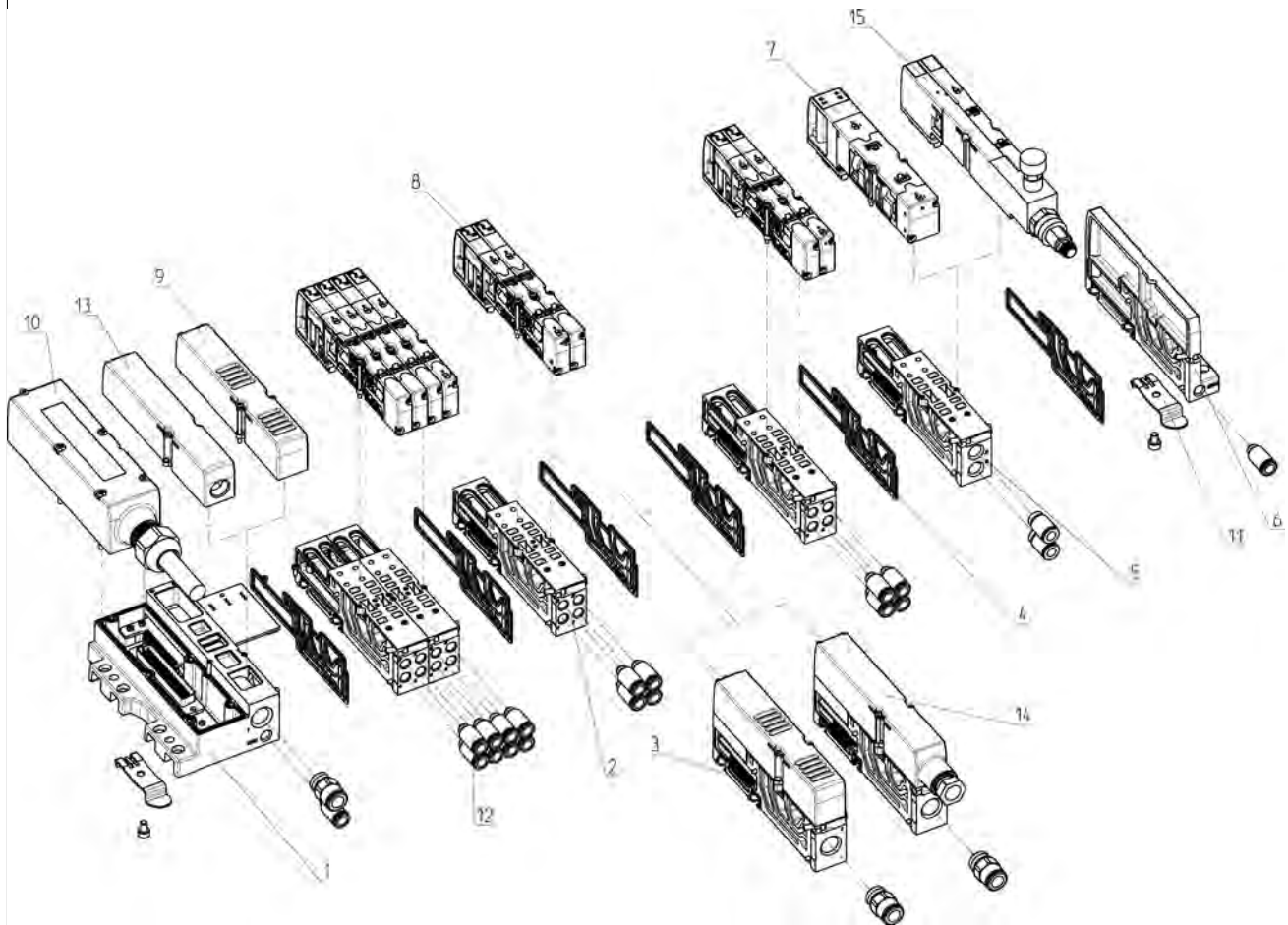
The individual fieldbus version consists of an island that enables the handling of 64 Inputs and 64 Outputs. It does not enable the handling of the Expansions but it can be equipped with all peripheral elements of the expandable versions. The whole electronic system can be used in other types of Valve islands (see Individual Fieldbus node Series CX2 on pag. 2/3.20).

Component's description - Multipole version

New

2

CONTROL

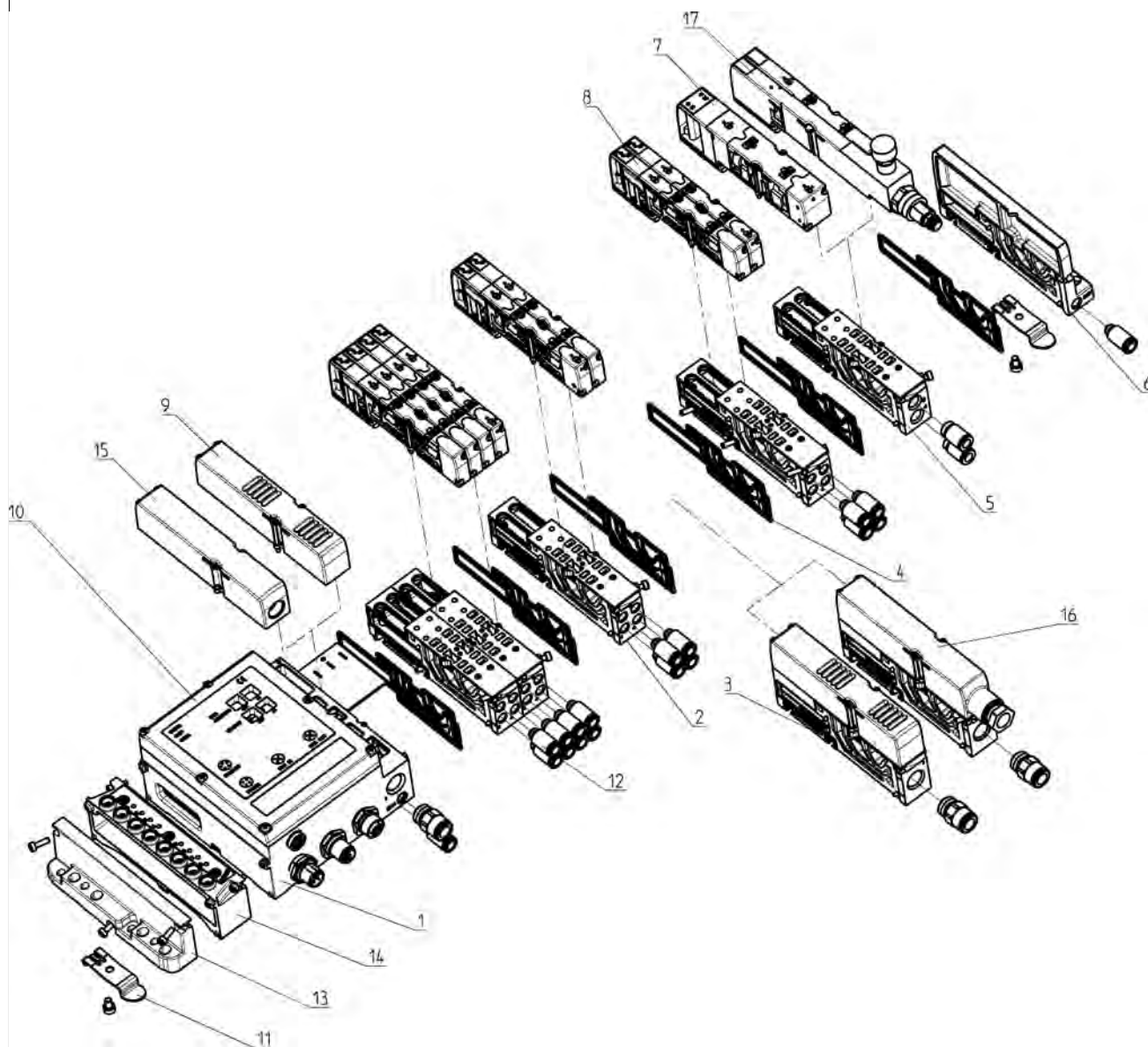


1	Terminal
2	Threaded sub- base size 10,5 modularity 2
3	Intermediate plate for suppl. inlet exhausts (with or without) integrated silencer
4	Interface seal
5	Threaded sub - base size 21 modularity 1
6	Pneumatic terminal (right)
7	Solenoid valve Sizes 2
8	Solenoid valve Sizes 1
9	Silencer
10	Multipole connector (25 or 37 pole) with cable
11	Mounting bracket for DIN rail
12	Quick-release fittings
13	Cover to convey outlets 3 and 5
14	Module for power supply separation
15	Valve size 10,5 with pressure regulator incorporated (total width of 21mm)

Component's description - Expandable Fieldbus

New

2



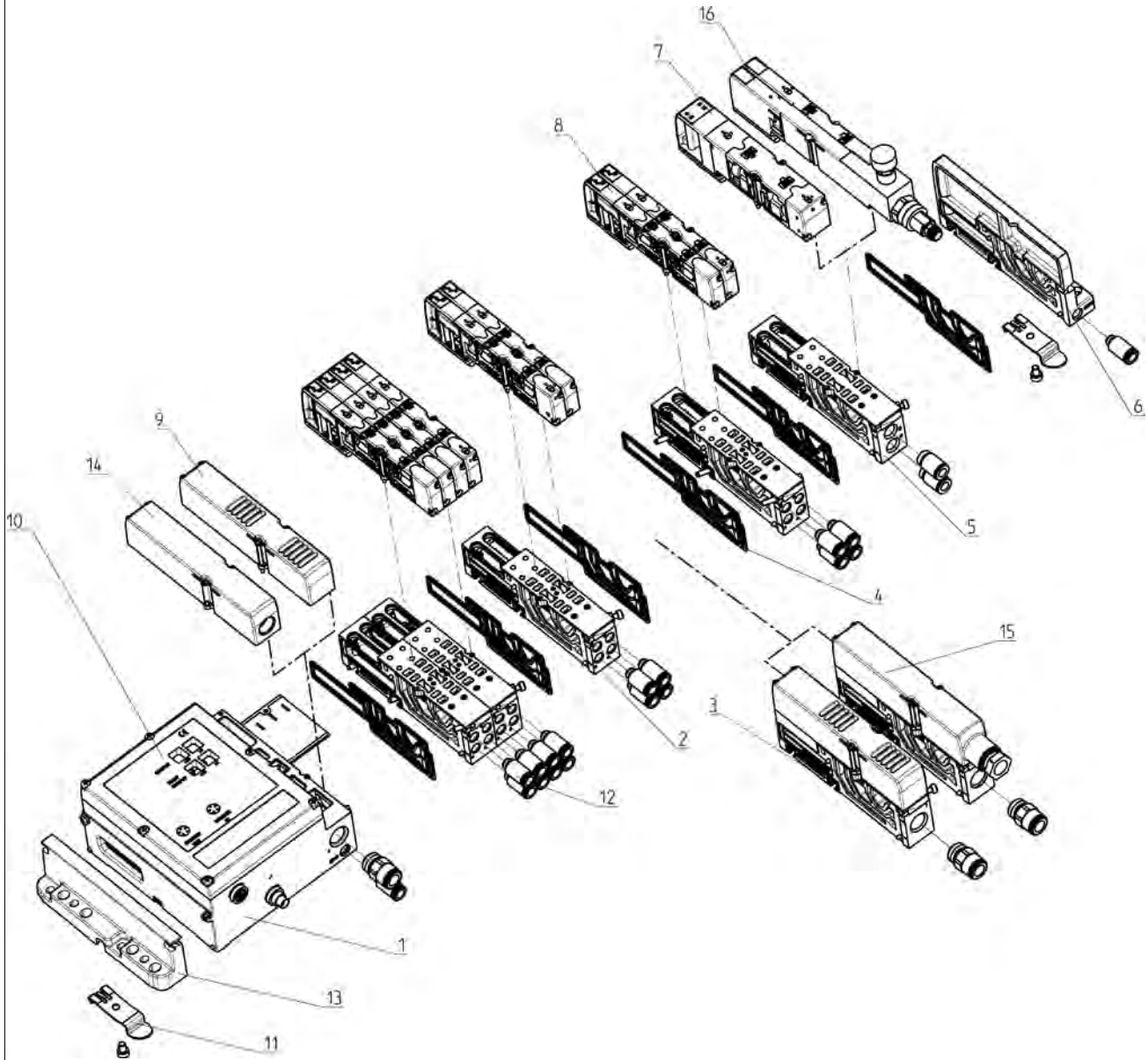
1	Expandable Fieldbus node (Initial Module)
2	Threaded sub - base size 10,5 modularity 2
3	Intermediate plate for suppl. inlet and exhausts (with or without integrated silencer)
4	Interface seals
5	Threaded sub- base size 21 modularity 1
6	Pneumatic terminal (right)
7	Solenoid valve size 2
8	Solenoid valve size 1
9	Silencer
10	Cover
11	Mounting bracket for DIN rail
12	Quick-release fittings
13	Electric terminal (left)
14	Input module (8 inputs/module)
15	Cover to convey outlets 3 and 5
16	Module for power supply separation
17	Valve size 10,5 with pressure regulator incorporated (total width of 21mm)

Component's description - Fieldbus expansion version

New

CONTROL

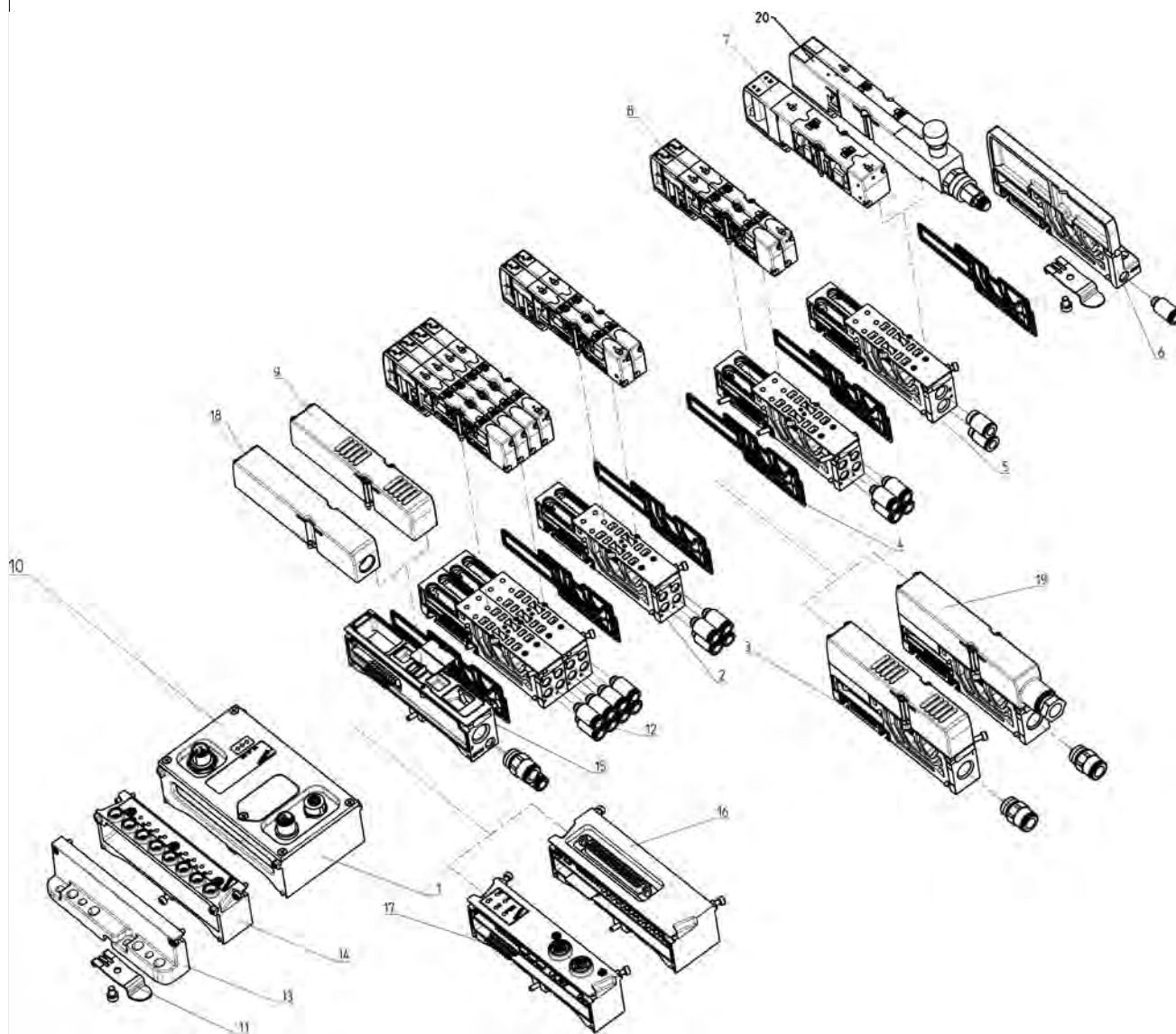
2



1	Expansion module (local fieldbus)
2	Threaded sub- base size 10,5 modularity 2
3	Intermediate plate suppl. inlet and exhausts (with or without integrated silencer)
4	Interface seals
5	Threaded sub- base size 21 modularity 1
6	Pneumatic terminal (right)
7	Solenoid valve size 2
8	Solenoid valve size 1
9	Silencer
10	Cover
11	Mounting bracket for DIN rail
12	Quick - release fittings
13	Electric terminal (left)
14	Cover to convey outlets 3 and 5
15	Module for power supply separation
16	Valve size 10,5 with pressure regulator incorporated (total width 21mm)

Individual Fieldbus version

New



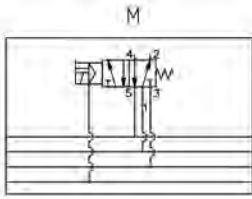
1	Individual Fieldbus node	11	Mounting bracket for DIN rail
2	Threaded subbase size 10,5 modularity 2	12	Quick - release fittings
3	Intermed. plate for suppl. inlet/exh. (with/without integr. silencer)	13	Electric terminal (left)
4	Interface seals	14	Input module (8 inputs/module)
5	Threaded subbase size 21 modularity 1	15	Electrical/pneumatic interface module for individual fieldbus node
6	Pneumatic terminal (right)	16	Digital output module (D-SUB - 37 pin)
7	Solenoid valve size 2	17	Digital output module (2xM12 - 4 outputs)
8	Solenoid valve size 1	18	Cover to convey outlets 3 and 5
9	Silencer	19	Module for power supply separation
10	Cover	20	Valve size 10,5 with integrated pressure regulator

The company reserves the right to vary models and dimensions without notice. Products designed for industrial applications. Sale to general public is forbidden.

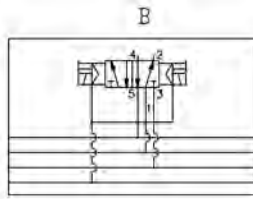
SYMBOLS FOR SOLENOID VALVES

2

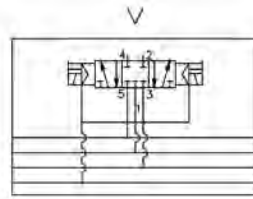
CONTROL



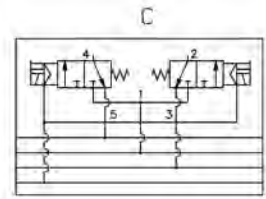
Valve code M
Function 5/2 Monostable



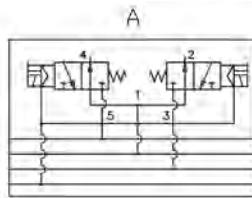
Valve code B
Function 5/2 Bistable



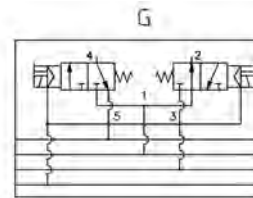
Valve code V
Func. 5/3 Centres Closed



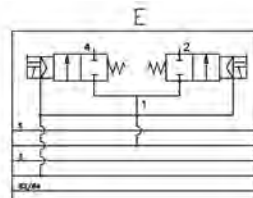
Valve code C
Function 2 x 3/2 N.C.



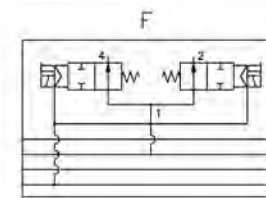
Valve code A
Function 2 x 3/2 N.O.



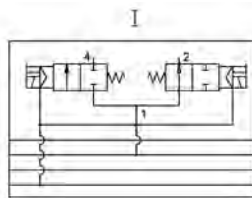
Valve code G
Fn. 1x3/2 N.C.+1x3/2 N.O.



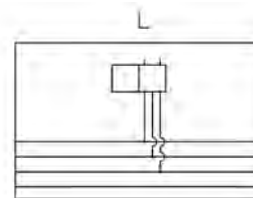
Valve code E
Func. 2 x 2/2 N.C.



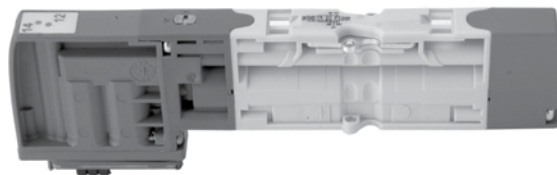
Valve code F
Func. 2 x 2/2 N.O.



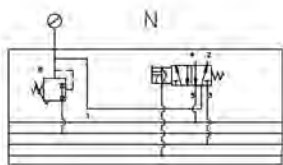
Valve code I
Fn. 1x2/2 N.C.+1x2/2 N.O.



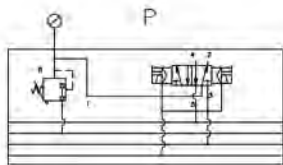
Valve code L
Free position



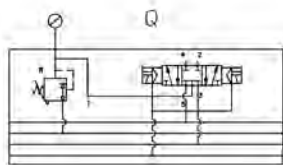
SYMBOLS FOR SOLENOID VALVES WITH INCORPORATED REGULATOR IN THE SUB-BASE



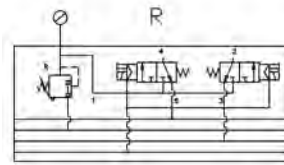
Valve code N
Function 5/2 Monostable



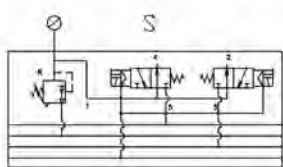
Valve code P
Function 5/2 Bistable



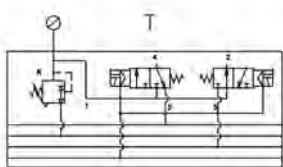
Valve code Q
Function 5/3 Closed centres



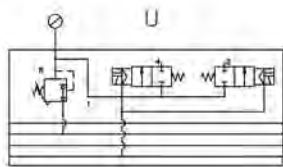
Valve code R
Function 2 x 3/2 N.C.



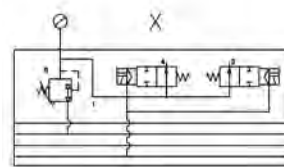
Valve code S
Function 2 x 3/2 N.O.



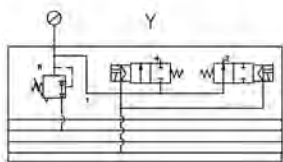
Valve code T
Fn. 1x3/2 N.C.+1x3/2 N.O.



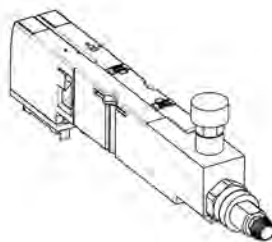
Valve code U
Function 2 x 2/2 N.C.



Valve code X
Function 2 x 2/2 N.O.



Valve code Y
Fn. 1x2/2 N.C.+1x2/2 N.O.



SUBBASES TYPES

2



Through subbase size 10,5
A=M7; B=Ø4; C=Ø6



Subbase diaphragm. lines 1;3;5
D=M7 E=Ø4 F=Ø6



Subbase diaphragm. line 1
L=M7; M=Ø4; N=Ø6



Subbase diaphragm. lines 3; 5
G=M7 H=Ø4 I=Ø6



Subbase size 21
Q=1/8; R=Ø6; S=Ø8



x = Supplementary supply + exhaust (conveyed)



K=Mod. for electr. power supply sep.+ suppl. inlet press.



Y = Supplem. supply+ exhaust (with integ. silencer)



U = Diaphragm seal Line 1



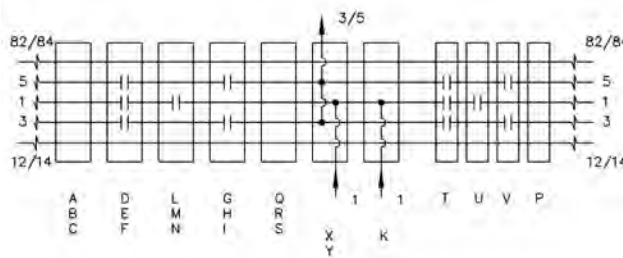
V = Diaphragm seal Lines 3; 5.



P = Through seal



T = Diaphragm seal Lines 1 ; 3 ; 5

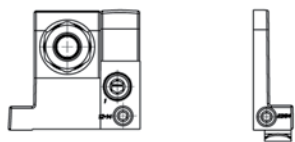


CONTROL

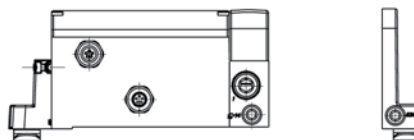
Terminals Series H

New

2



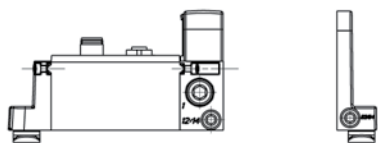
Terminals Multipole version



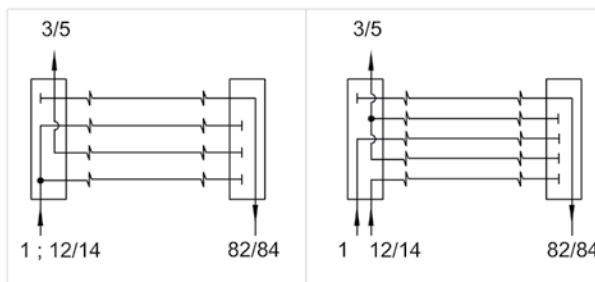
Terminals Expandable Fieldbus version

Terminals Series H

New



Terminals Series H Individual Fieldbus version



Cod.
A - C - E - G - I - M

Cod.
B - D - F - H - L - N

- For a description of the codes mentioned above see page 2.3.15.22 Section (6) for Multipole version.

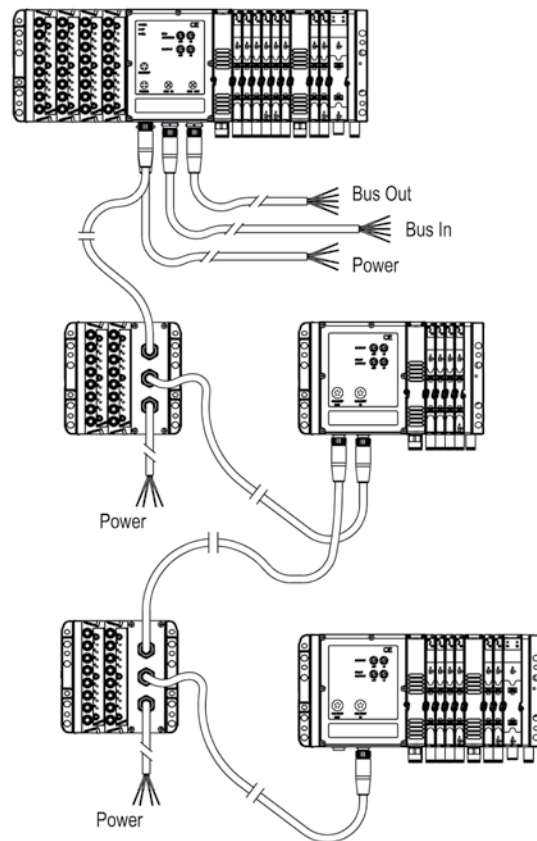
- For a description of the codes mentioned above see page 2.3.15.24 / 25 Section (7) for Fieldbus version.

Example of Expandable Fieldbus System with both Initial and Expansion Modules

New

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, CamiNet outlet to transfer signals to the Expansion modules, with a possibility of connecting a maximum of 15 Expansion modules up to a maximum distance of 50 m. All the internal connections are on circuit boards with plug-in connectors to make future modifications easier to achieve. The Initial module electronics are capable of handling 64 inputs and 64 outputs. The outputs are on the right hand side of the unit and the inputs on the left hand side. The 64 output units allow connection of up to 32 positions for monostable or bistable valves. Custom Made versions enable up to 60 monostable valves (10,5mm only). Any outputs not used on the IM (initial module) are transferred for use by the expansion units.

Different types of elements are available for Outputs, the features of these elements determine the maximum number that can be used. The addressing and configuration is done through rotary switches located under the cover and the LEDs indicate the working state. Expansion modules are only capable of handling Outputs, up to the maximum number allowed for each IM (taken into account the number of outputs used by the IM). Connections between each of the modules are done by using cables (5 core) in various pre-cut lengths with M9 connectors. The use of expansion modules linked via the CamiNet line proves more economical as it does not require a supply and Fieldbus connection, also enabling the use of less powerful controllers.



Example with Individual Fieldbus Modules.

New

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.

All the internal connections are on circuit boards with plug-in connectors to make future modifications easier to achieve. This version is capable of handling 64 inputs and 64 outputs. The outputs are on the right hand side of the unit and the inputs on the left hand side.

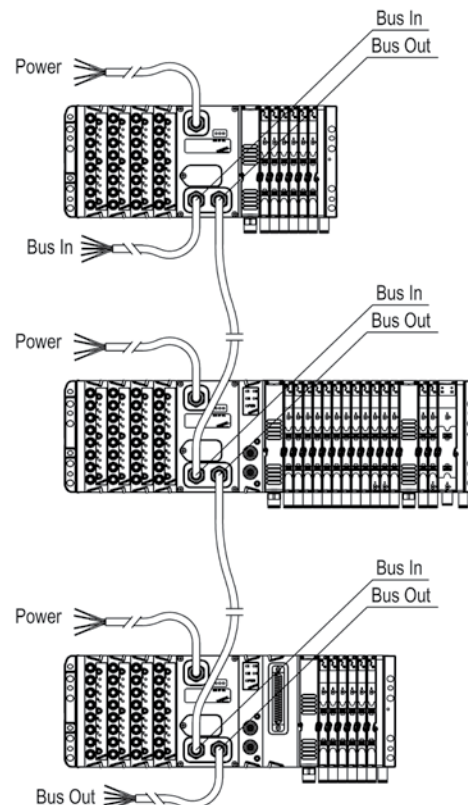
The 64 output units allow connection of up to 32 positions for monostable or bistable valves. Custom Made versions enable up to 60 monostable valves (10,5mm only). Each island represents a node in the field bus network and as it does not have any local Fieldbus outlet it is particularly suited to a single applications or applications with a limited number of Valve islands.

This feature enables economic solutions, as there is a large choice of various Input and Output modules available, which are the same as the Expansion versions.

Both this version and the Initial Module plus expansion version can be equipped with Solenoid valves in size 1 (10,5mm) and size 2 (21mm), or a mixture of both sizes.

Multiple pressure zones and separate electrical supplies are available using intermediate plates.

With mixed islands pneumatic and electrical adaptor plates are not necessary and the number of valve positions will not be reduced as the addressing is done via rotary switches, with the LEDs indicating the working state.



Multipole example

New

2

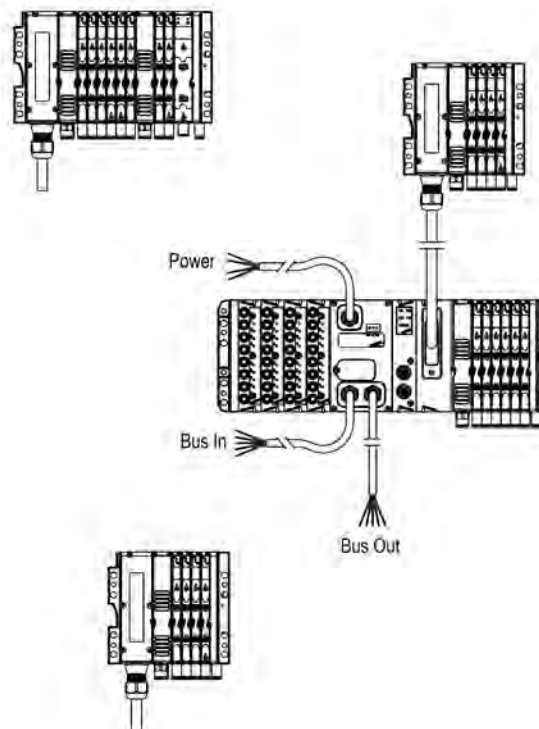
The Multipole version is available in PNP or NPN version.

The multipole connector with a pre wired cable (standard length 3 or 5 meter) is available in two versions, with 25 or 37 pins.

The 25 pin version allows connection of up to 12 positions for monostable or bistable valves, (10 pos 21mm). Custom Made versions enable up to 20 monostable valves (10,5 mm valves only). The 37 pin version allows connection of up to 16 positions for monostable or bistable valves, (14 pos for 21mm). Custom Made versions enable up to 28 monostable valves (10,5 mm only).

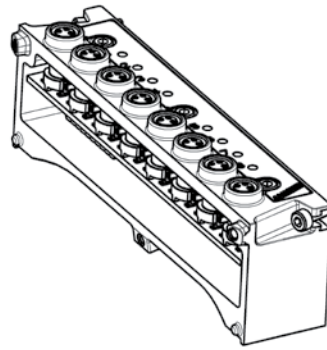
This Multipole version can be equipped with Solenoid valves in size 1 (10,5mm) and size 2 (21mm), or a mixture of both sizes. Multiple pressure zones and separate electrical supplies are available using intermediate plates.

With mixed islands pneumatic and electrical adaptor plates are not necessary and the number of valve positions will not be reduced.



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

New

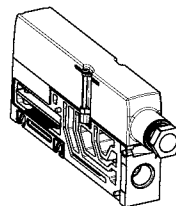


GENERAL DATA

Number of digital inputs	8
Connection	M8 - 3 pin
Module dimension	130 x 25 mm
Signalling Led	Yellow Led for each inlet
Sensors supply	24 V DC +/- 10%
Protection	Overloaded (400 mA every 4 sensors)
Power consumption of the module without load	10 mA
Type of signal	PNP
Protection class	IP 65
Operating temperature	0°C + 50°C
Material	Aluminium
Weight	110 g

Module for electr. power supply separation + supplem. inlet press. Mod. HA1S-K

New

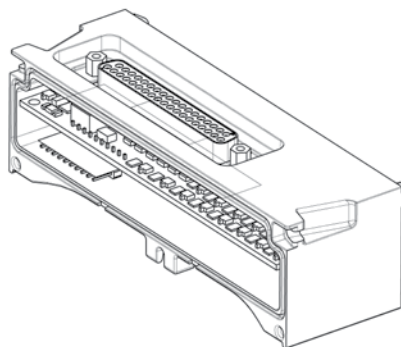


GENERAL DATA

Connection	3 poles
Dimensions	130 x 20 mm
Signalling	None
Supply	24 V dc (+/- 10%)
Electrical protection	Fuse 2 A
Protection class	IP 65
Temperature	0°C + 50 °C
Material	Plastic - Aluminium
Weight	100 g

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

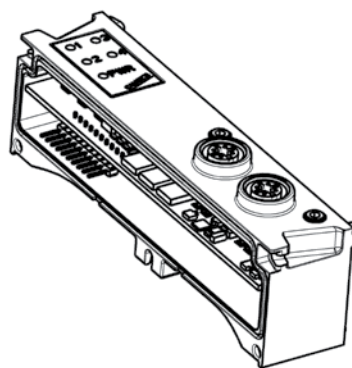
New



GENERAL DATA				
	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-xxxx-DL

New

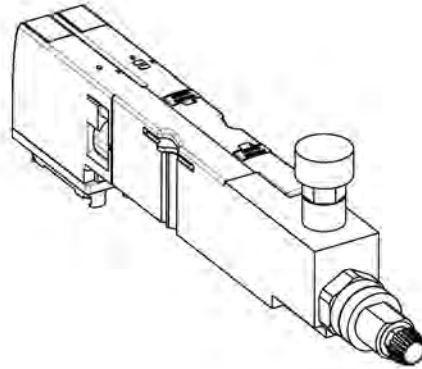


GENERAL DATA	
	ME-0004-DL
Number of digital outputs	4
Connection	M 12 5 Poles Duo
Number of connections	2 Female connectors M 12
Dimensions	130 x 25
Signalling	1 Yellow Led for each single outlet 1 Green Led for power supply presence on the module
Outlet voltage	24 V DC +/- 10%
Signal	24 V DC PNP
Protection	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

Valve with integrated pressure regulator (on inlet port 1)

New

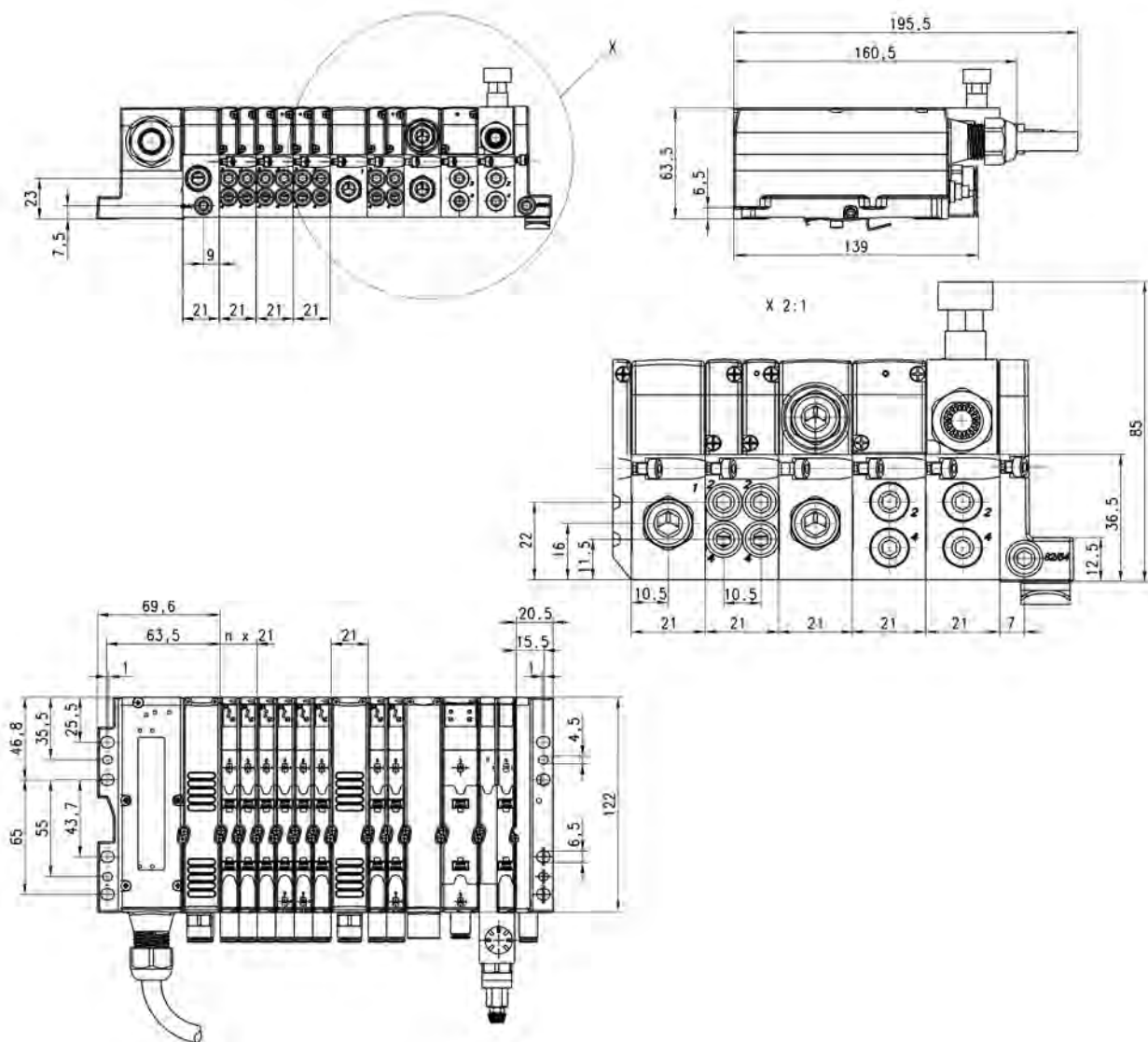
This solution has the advantage of reducing the valve island's overall height compared to traditional "sandwich" solutions. The total width of this valve is 21mm. With the integrated pressure regulator it is possible to set the supply pressure (port 1) of the valve.



Multipole version

New

2

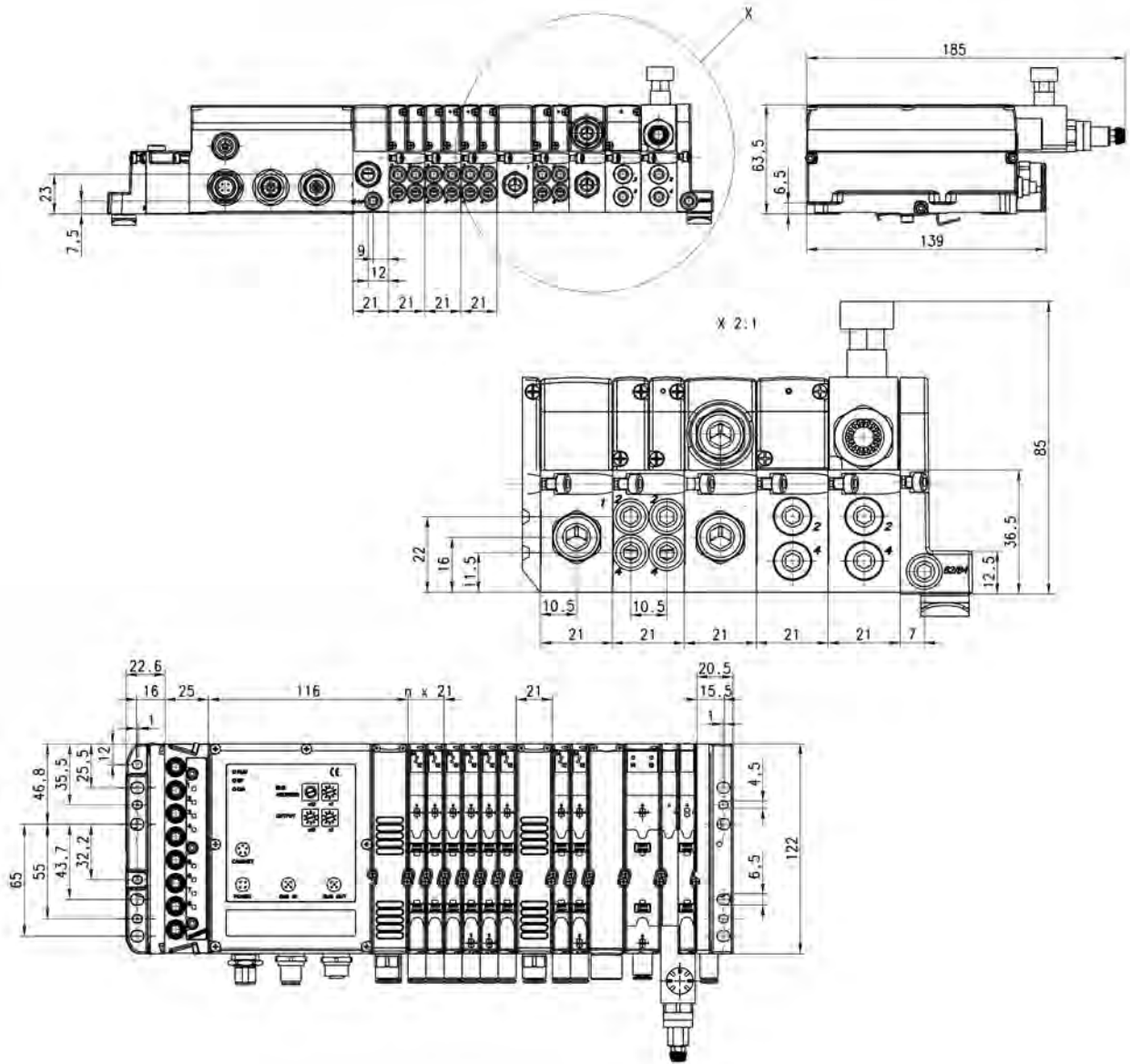


Expandable Fieldbus

New

2

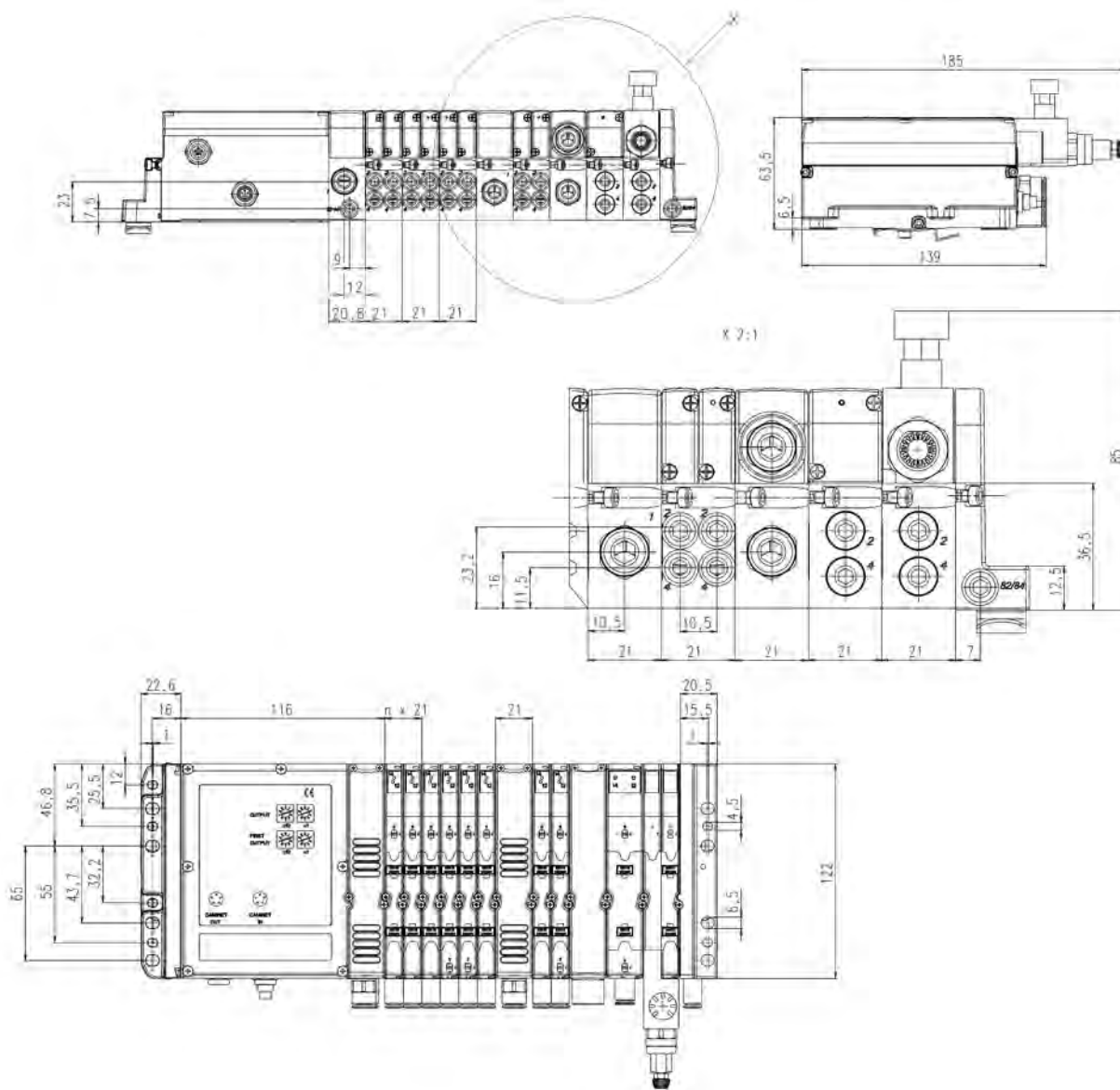
CONTROL



Fieldbus expansion

New

2

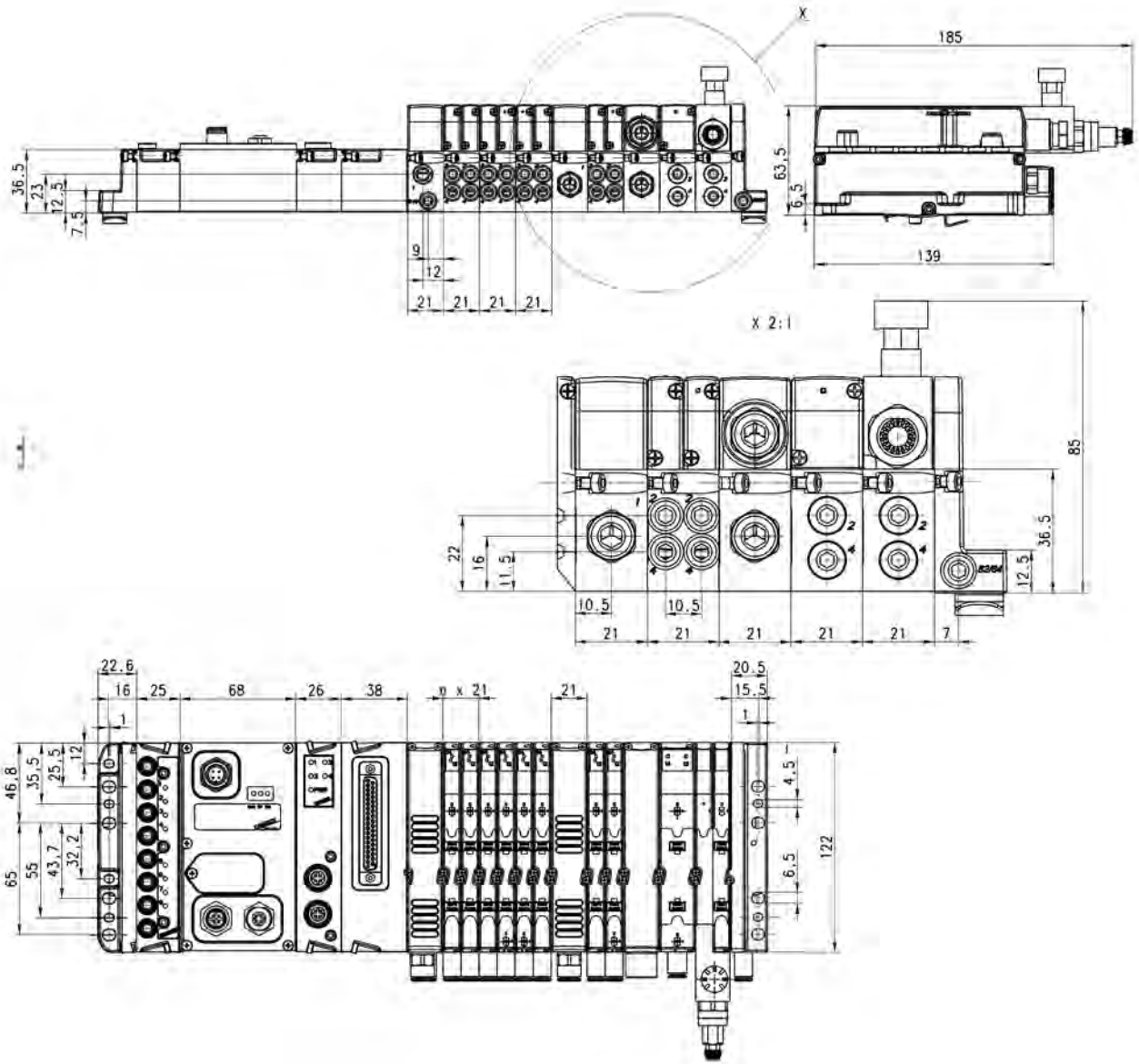


Individual Fieldbus version

New

2

CONTROL



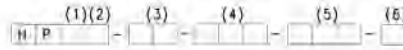
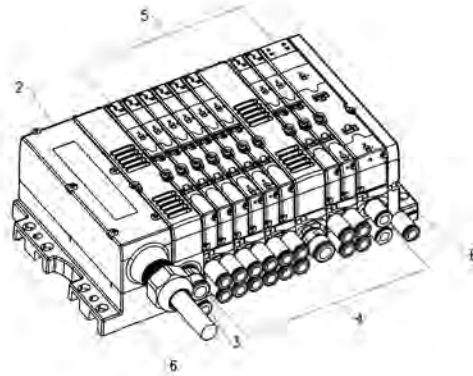
CODING OF VALVE ISLAND SERIES H - MULTIPOLE

H	P	5	M	-	03	-	ABCS	-	MMCCBBB	-	A
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H	Series		
P	Type: P = Pneumatic A = Accessories		
5	Size: 1 = 10,5 2 = 21 5 = Mixed (both 10,5 and 21)		
M	Electrical connector: M = Multipole 25 pin PNP N = Multipole 25 pin NPN H = Multipole 37 pin PNP L = Multipole 37 pin NPN		
03	Cable length of the multipole 03 = 3 mt 05 = 5 mt 10 = 10 mt 15 = 15 mt 20 = 20 mt 25 = 25 mt 30 = 30 mt x = length to be defined in meters		
ABCS	Type of sub-bases and seals: Sub-base for two valves Size 1 (10,5mm): A = threaded M7 (ports 2 and 4) B = fittings for tube Ø4 (ports 2 and 4) C = fittings for tube Ø6 (ports 2 and 4) D = channel 1; 3 ; 5 closed - threaded M7 E = channel 1; 3 ; 5 closed - cartridge Ø4 (ports 2 and 4) F = channel 1; 3 ; 5 closed - cartridge Ø6 (ports 2 and 4) G = channel 3 ; 5 closed - threaded M7 H = channel 3 ; 5 closed - cartridge Ø4 (ports 2 and 4) I = channel 3 ; 5 closed - cartridges Ø6 (ports 2 and 4) L = channel 1 closed - threaded M7 M = channel 1 closed - cartridge Ø4 (ports 2 and 4) N = channel 1 closed - cartridge Ø6 (ports 2 and 4)	Sub-bases for solenoid valves size 2: Q = threaded G 1/8 (ports 2 and 4) R = fittings for tube Ø6 (ports 2 and 4) S = fittings for tube Ø8 (ports 2 and 4) Supplementary pressures and exhaust: X = supplementary pressure supply and exh. (with integrated silencer) Y = supplementary pressure supply and exh. (with integrated silencer)	Sub-bases for electrical supply: K = Module for electrical power supply separation + supplementary inlet pressure Seals: T = diaphragm seal - channel 1;3;5 U = diaphragm seal - channel 1 V = diaphragm seal - channel 3; 5
MMCCBBB	Type of solenoid valve Size 1 and 2: M = 5/2 Monostable B = 5/2 Bistable V = 5/3 Centres Closed C = 2 x 3/2 N.C. A = 2 x 3/2 N.O. G = 1 x 3/2 N.C. + 1 x 3/2 N.O. E = 2 x 2/2 N.C. F = 2 x 2/2 N.O. I = 1 x 2/2 N.C. + 1 x 2/2 N.O. L = Free position	Solenoid valve + Pressure regulator on inlet 1 (SIZE 2 ONLY): N = 5/2 Monostable P = 5/2 Bistable Q = 5/3 Centres Closed R = 2 x 3/2 N.C. S = 2 x 3/2 N.O. T = 1 x 3/2 N.C. + 1 x 3/2 N.O. U = 2 x 2/2 N.C. X = 2 x 2/2 N.O. Y = 1 x 2/2 N.C. + 1 x 2/2 N.O.	
A	Terminal plates: Threaded: A = 1; 12/14 in common 3/5; 82/84 threaded ports B = 1; 12/14 separate 3/5; 82/84 threaded ports C = 1; 12/14 in common 3/5; 82/84 with integrated silencer D = 1; 12/14 separate 3/5; 82/84 with integrated silencer	Terminal plates: With cartridges Ø 8 : E = 1; 12/14 in common 3/5; 82/84 conveyable F = 1; 12/14 separate 3/5; 82/84 conveyable G = 1; 12/14 in common 3/5; 82/84 with integrated silencer H = 1; 12/14 separate 3/5; 82/84 with integrated silencer	Terminal plates: With cartridges Ø 10 : I = 1; 12/14 in common 3/5; 82/84 conveyable L = 1; 12/14 separate 3/5; 82/84 conveyable M = 1; 12/14 in common 3/5; 82/84 with integrated silencer N = 1; 12/14 separate 3/5; 82/84 with integrated silencer

In presence of identical consequent codes both for the sub bases as for the valves you need to substitute the letter with the number.
Ex: HP1H-03-AAAAA-MMMBBB-A is converted to Ex: HP1H-03-6A-3M3B-A.

Ordering example Island valves Series H - Multipole



CODE											
HP (1)		(2)			(3)		(4)		(5)		(6)
		Electrical connection			Cable length:		Sub-base for two valves Size 1 (10,5mm)		Type of Solenoid valve size 1 and 2		Terminal plates - Threaded
1	10	M	Multip. 25 pin PNP	03	03 m	A	Threaded M7	M	5/2 Monostable	A	1 ; 12/14 in common 3/5 ; 82/84 threaded ports
2	21	N	Multip. 25 pin NPN	05	05 m	B	fittings for tube Ø4	B	5/2 Bistable	B	1 ; 12/14 separate 3/5 ; 82/84 threaded ports
5	Mixed	H	Multip. 37 pin PNP	10	10 m	C	fittings for tube Ø6	V	5/3 Centres Closed	C	1 ; 12/14 in common 3/5 ; 82/84 w. integr. silencer
		L	Multip. 37 pin NPN	15	15 m	D	channel 1; 3; 5 closed - threaded M7	C	2 x 3/2 N.C.	D	1 ; 12/14 separate 3/5 ; 82/84 w. integr. silencer
				20	20 m	E	channel 1; 3; 5 closed - cartridge Ø4	A	2 x 3/2 N.O.		Terminal plates - with cartridges Ø8 on port 1
				25	25 m	F	channel 1; 3; 5 closed - cartridge Ø6	G	1 x 3/2 N.C. + 1 x 3/2 N. O.	E	1 ; 12/14 in common 3/5 ; 82/84 conveyable
				30	30 m	G	channel 3; 5 closed threaded M7	E	2 x 2/2 N.C	F	1 ; 12/14 separate 3/5 ; 82/84 conveyable
			X length to be defined in meters			H	channel 3; 5 closed - cartridge Ø4	F	2 x 2/2 N.O.	G	1 ; 12/14 in common 3/5 ; 82/84 w. integr. silencer
						I	channel 3; 5 closed - cartridge Ø6	I	1 x 2/2 N.C. + 1 x 2/2 N.O.	H	1 ; 12/14 separate 3/5 ; 82/84 w. integr. silencer
						L	channel 1 closed - threaded M7	L	Free position		Terminal plates - with cartridges Ø10 on port 1
						M	channel 1 closed - cartridge Ø4		Valves with integr. pressure reg. online 1 (Size 2 only)	I	1 ; 12/14 in common 3/5 ; 82/84 conveyable
						N	channel 1 closed - cartridge Ø6	N	5/2 Monostable	L	1 ; 12/14 separate /5 ; 82/84 conveyable
							Sub- base for Valves size 2	P	5/2 Bistable	M	1 ; 12/14 in common 3/5 ; 82/84 with integrated silencer
							Threaded G1/8	Q	5/3 Centres Closed	N	1 ; 12/14 separate 3/5 ; 82/84 w. integr. silencer
							fittings for tube Ø6	R	2 x 3/2 N.C.		
							fittings for tube Ø8	S	2 x 3/2 N.O.		
							Supplem. press. and exhaust:	T	1 x 3 /2 N.C. 1 x 3 /2 N.O.		
							Supplem. pressure supply and exhaust	U	2 x 2/2 N.C.		
							Supplem. press. supply and exh. (w. integ. silencer)	X	2 x 2/2 N.O.		
							Sub-base for electrical supply	Y	1 x 2 /2 N.C. 1 x 2 /2 N.O.		
							Module for electrical power supply separation + supplementary inlet pressure	K			
							Seals				
							Diaphr. seal - channel 1; 3; 5	T			
							Diaphr. seal - channel 1	U			
							Diaphr. seal - channel 3; 5	V			

CODING OF VALVE ISLAND SERIES H - FIELDBUS

H P 5 P - 3A - XC - ABCS - MMCCBBB - A

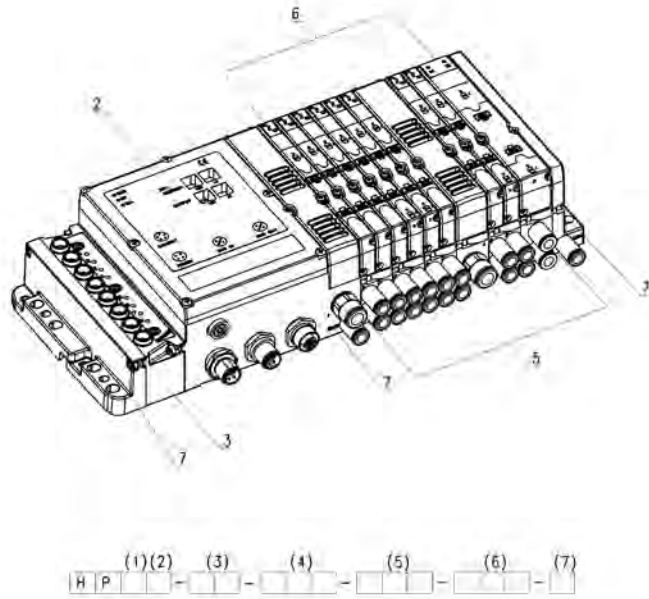
H	Series		
P	Type: P = Pneumatic A = Accessories		
5	Size: 1 = 10,5 2 = 21 5 = Mixed (both 10,5 and 21)		
P	Electrical Connection: P = Profibus-DP (expandable) C = CANopen (expandable) D = DeviceNet (expandable) E = Expansion (only for P-C-D) F = Profibus-DP - Individual Fieldbus G = CANopen - Individual Fieldbus R = DeviceNet - Individual Fieldbus		
3A	Input Modules: 0 = Without inputs A = Input module - 8 digital (8xM8)		
XC	Output Modules: 0 = Without outputs B = Output module - 4 digital (2xM12) C = 8 Output Sub-D 37 pin D = 16 Output Sub-D 37 pin E = 24 Output Sub-D 37 pin F = 32 Output Sub-D 37 pin L = 2 Output Analog. 0-10 V (in anticipation, not available now) N = 2 Output Analog. 4-20 mA (in anticipation, not available now).		
ABCS	Sub- base for two valves size 1 (10,5 mm) A = threaded M7 (ports 2 and 4) B = fittings for tube Ø4 (ports 2 and 4) C = fittings for tube Ø6 (ports 2 and 4) D = channel 1; 3 ; 5 closed - threaded M7 E = channel 1; 3 ; 5 closed - cartridge Ø4 (ports 2 and 4) F = channel 1; 3 ; 5 closed - cartridge Ø6 (ports 2 and 4) X = Pneum. Electr. Interface Y = Pneum. Electr. Interface + external power supply	Type of sub- bases and seals: Q = threaded G1/8 (ports 2 and 4) R = fittings for tube Ø6 (ports 2 and 4) S = fittings for tube Ø8 (ports 2 and 4) Supplementary pressure and exhaust: X = supplementary pressure supply and exhaust Y = supplementary pressure supply and exhaust (with integrated silencer)	Type of sub- bases and seals: Sub-bases for electrical supply: K = module for electrical power supply separation + supplementary inlet pressure Seals: T = diaphragm seal - channel 1; 3; 5 U = diaphragm seal - channel 1 V = diaphragm seal - channel 3 and 5
MMCCBBB	Type of Solenoid valveSize 1 and 2: M = 5/2 Monostable B = 5/2 Bistable V = 5/3 Centres closed C = 2 x 3/2 N.C. A = 2 x 3/2 N.O. G = 1 x 3/2 N.C. + 1 x 3/2 N.O. E = 2x 2/2 N.C. F = 2 x 2/2 N.O. I = 1 x 2/2 N.C. + 1 x 2/2 N.O. L = free position	Solenoid valve +Pressure regulator on line 1 SIZE 2 ONLY: N = 5/2 Monostable P = 5/2 Bistable Q = 5/3 Centres closed R = 2 x 3/2 N.C. S = 2 x 3/2 N.O. T = 1 x 3/2 N.C. + 1 x 3/2 N.O. U = 2 x 2/2 N.C. X = 2 x 2/2 N.O. Y = 1 x 2/2 N.C. + 1 x 2/2 N.O.	
A	Terminal plates: Threaded: A = 1; 12/14 in common 3/5; 82/84 threaded ports B = 1; 12/14 separate 3/5; 82/84 threaded ports C = 1; 12/14 in common 3/5; 82/84 with integrated silencer D = 1; 12/14 separate 3/5; 82/84 with integrated silencer	Terminal plates: With cartridges Ø 8 : E = 1; 12/14 in common 3/5; 82/84 conveyable F = 1; 12/14 separate 3/5; 82/84 conveyable G = 1; 12/14 in common 3/5; 82/84 with integrated silencer H = 1; 12/14 separate 3/5; 82/84 with integrated silencer	Terminal plates: With cartridges Ø 10 : I = 1; 12/14 in common 3/5; 82/84 conveyable L = 1; 12/14 separated 3/5; 82/84 conveyable M = 1; 12/14 in common 3/5; 82/84 with integrated silencer N = 1; 12/14 separated 3/5; 82/84 with integrated silencer

X and Y sub bases e K will be equipped with the threads or cartridges of the same size of the port 1 see the choice " Terminal plates ".

Ordering example Valve Island Series H - Fieldbus

2

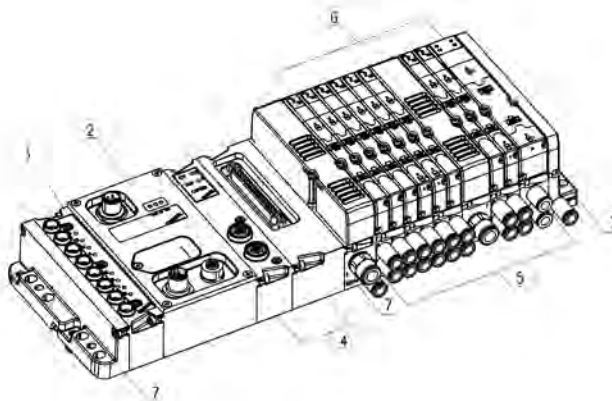
CONTROL



CODE

HP (1)	(2)	(3)	(4)	(5)	(6)	(7)	
Size	Electrical connector	Input modules	Output modules	Sub-base for two valves Size 1 (10,5mm)	Type of Solenoid valve size 1 and 2	Terminal plates	
1	10,5 P Profibus-DP (expandable)	0 Without inputs	A Without outputs	A Threaded M7	M 5/2 Monostable	A 1; 12/14 in common 3/5; 82/84 threaded	
2	21 C CANopen (expandable)	A Input module - 8 digital (8xM8)	B	B fittings for tube Ø4	B 5/2 Bistable	B 1; 12/14 separate 3/5; 82/84 threaded	
5	Mixed D DeviceNet (expandable)		C	C fittings for tube Ø6	V 5/3 Centres Closed	C 1; 12/14 in common 3/5; 82/84 w. silencer	
	E only for P-C-D Expansion		D	D channel 1; 3; 5 closed - threaded M7	C 2 x 3/2 N.C.	D 1; 12/14 separate 3/5; 82/84 w. silencer	
			E	E channel 1; 3; 5 closed - cartridge Ø4	A 2 x 3/2 N.O.	Terminal plates - with cartridges Ø8 for size 1	
			F	F channel 1; 3; 5 closed - cartridge Ø6	G 1 x 3/2 N.C. + 1 x 3/2 N.O.	E 1; 12/14 in common 3/5; 82/84 conveyable	
			G	G channel 3; 5 closed threaded M7	E 2 X 3/2 N.C.	F 1; 12/14 in common 3/5; 82/84 conveyable	
			H	H channel 3; 5 closed - cartridge Ø4	F 2 X 3/2 N.O.	G 1; 12/14 in common 3/5; 82/84 w. silencer	
			I	I channel 3; 5 closed - cartridge Ø6	I 1 x 2/2 N.C. + 1 x 2/2 N.O.	H 1; 12/14 separate 3/5; 82/84 w. silencer	
			L	L channel 1 closed - threaded M7	L Free position	Term. plates - w. cartr. Ø8 (size 2 and 5)	
			M	M channel 1 closed - cartridge Ø4	Valves w. integr. press. reg. online 1 (size 2)	I 1; 12/14 in common 3/5; 82/84 conveyable	
			N	N channel 1 closed - cartridge Ø6	N 5/2 Monostable	L 1; 12/14 in common 3/5; 82/84 conveyable	
				Sub- base for Valves size 2	P 5/2 Bistable	M 1; 12/14 in common 3/5; 82/84 w. silencer	
				Q Threaded G1/8	Q 5/3 Centres Closed	N 1; 12/14 separate 3/5; 82/84 w. silencer	
				R fittings for tube Ø6	R 2 x 3/2 N.C.		
				S fittings for tube Ø8	S 2 x 3/2 N.O.		
				Suppl. press. + exhaust	T 1x3/2 N.C. + 1x3/2 N.A.		
			X	Supplem. press. supply and exh.	U 2 x 2/2 N.C.		
			Y	Supplem. press. supply and exh. (w. silencer)	X 2 x 2/2 N.A.		
				Sub-base for electr. supply	Y 1x 2/2 N.C. + 1x2/2 N.A.		
			K	Electr. supply separ. + suppl. inlet press.			
			Seals				
				T Diaphr. - channel 1; 3; 5			
				U Diaphr. - channel 1			
				V Diaphr. - channel 3; 5			

Ordering example Valve Island Series H - Individual



CODE						
HP (1)	(2)	(3)	(4)	(5)	(6)	(7)
Size	Electrical Connection	Input Modules	Output Modules	Sub-base for two valves Size 1 (10,5mm)	Type of solenoid valve Size 1 and 2	Terminal plates - Threaded
1	10,5 F Profibus-DP - Individual Fieldbus	0 Without inputs	0 Without outputs	A Threaded M7	M 5/2 Monostable	A 1; 12/14 in common 3/5; 82/84 threaded
2	G CANopen - Individual Fieldbus	A Input module - 8 digital (8xM8)		B fittings for tube Ø4	B 5/3 Bistable	B 1; 12/14 separate; 3/5; 82/84 threaded
5	Mixed R DeviceNet - Individual Fieldbus			C fittings for tube Ø6	V 5/3 Centres Closed	C 1; 12/14 in common; 3/5; 82/84 w. silencer
				D channel 1; 3; 5 closed - threaded M7	C 2 x 3/2 N.C.	D 1; 12/14 separate; 3/5; 82/84 w. silencer
				E channel 1; 3; 5 closed - cartridge Ø4	A 2 x 3/2 N.O.	Terminal plates - with cartridges Ø8 for Size 1
				F channel 1; 3; 5 closed - cartridge Ø6	G 1 x 3/2 N.C. 1 x 3/2 N.O.	E 1; 12/14 in common 3/5; 82/84 conveyable
				G channel 3; 5 closed threaded M7	E 2 x 2 /2 N.C.	F 1; 12/14 separate 3/5; 82/84 conveyable
				H channel 3; 5 closed - cartridge Ø4	F 2 x 2 /2 N.O.	G 1; 12/14 in common 3/5; 82/84 w. silencer
				I channel 3; 5 closed - cartridge Ø6	I 1 x 2 /2 N.C. 1 x 2 /2 N.O.	H 1; 12/14 separate 3/5; 82/84 w. silencer
				L channel 1 closed - threaded M7	L Free position	Term. plates - w. cartr. Ø8 (size 2 and 5)
				M channel 1 closed - cartridge Ø4	Valves w. integr. press. reg. online (size 2)	I 1; 12/14 in common 3/5; 82/84 conveyable
				N channel 1 closed - cartridge Ø6	N 5/2 Monostable	L 1; 12/14 separate 3/5; 82/84 conveyable
				Sub- base for Valves size 2	P 5/3 Bistable	M 1; 12/14 in common 3/5; 82/84 w. silencer
				Q Threaded G1/8	Q 5/3 Centres Closed	N 1; 12/14 separate 3/5; 82/84 w. silencer
				R fittings for tube Ø6	R 2 x 3 /2 N.C.	
				S fittings for tube Ø8	S 2 x 3 /2 N.O.	
				Suppl. press. + exhaust	T 1x3/2 N.C. 1x3/2 N.O.	
				X Supplem. press. supply + exh.	X 2 x 2 /2 N.C.	
				Y Supplem. press. supply + exh. (w. silencer)	Y 1 x 2 /2 N.C. 1 x 2 /2 N.O.	
				Sub-base for electrical supply		
				K Electr. supply separ. + suppl. inlet press.		
				Seals		
				T Diaphr. - channel 1; 3; 5		
				U Diaphr. - channel 1		
				V Diaphr. - channel 3; 5		

CODING: VALVE - SUB BASES - END BLOCKS

EXAMPLE OF CODING SINGLE VALVE (Spare part)

HP1V-M

H	Series	
P	Type: P = Pneumatic	
1	Size: 1 = 10,5 2 = 21	
V	Type of accessory: V = Solenoid valve	
-		
M	Type of Solenoid Valve: M = 5/2 Monostable B = 5/2 Bistable V = 5/3 Centres Closed C = 2 x 3/2 N.C. A = 2 x 3/2 N.O. G = 1 x 3/2 N.C. + 1 x 3/2 N.O. E = 2 x 2/2 N.C. F = 2 x 2/2 N.O. I = 1 x 2/2 N.C. + 1 x 2/2 N.O. L = Free position	Solenoid valve + regulator + sub base N = 5/2 Monostable P = 5/2 Bistable Q = 5/3 Centres Closed R = 2 x 3/2 N.C. S = 2 x 3/2 N.O. T = 1 x 3/2 N.C. + 1 x 3/2 N.O. U = 2 x 2/2 N.C. X = 2 x 2/2 N.O. Y = 1 x 2/2 N.C. + 1 x 2/2 N.O.

EXAMPLE OF CODING OF SUB BASES - Accessories

HHA1S-A

H	Series	
A	Type: A = Accessories	
1	Size: 0 = For X-Y-K-T-U-V 1 = 10,5 2 = 21	
S	Type of accessory: R = Sub base Multipole S = Sub base Fieldbus G = Seals	
-		
A	Type of sub-base: A = Through - threaded M7 D = channel 1; 3; 5 closed - threaded M7 G = channel 3; 5 closed - threaded M7 L = channel 1 closed - threaded M7 Q = Threaded G1/8 (ports 2 and 4) X = supplementary pressure supply and exhaust Y = supplementary pressure supply and exhaust (with integrated silencer) K = Module for electrical power supply separation + supplementary inlet pressure	Type of seal: T = diaphragm seal - channel 1;3;5 U = diaphragm seal - channel 1 V = diaphragm seal - channel 3;5 P = Through

CODING: INPUT/OUTPUT MODULES - Codes multipole connections

EXAMPLE CODING TERMINALS - Accessories

HA0M-A

H	Series
A	Type: A = Accessories
0	Size: 0 = Not defined
M	Electrical connection: M = Multipole PNP N = Multipole NPN P = Profibus-DP (expandable) C = CANopen (expandable) D = DeviceNet (expandable) E = Expansion F = Terminals for individual Fieldbus
-	
A	End blocks: A = 1 - 12/14 common 3/5 threaded B = 1 - 12/14 separated 3/5 threaded C = 1 - 12/14 common 3/5 with integrated silencer D = 1 - 12/14 separated 3/5 with integrated silencer

EXAMPLE OF INPUT / OUTPUT MODULE CODING - Accessories

HA01-D

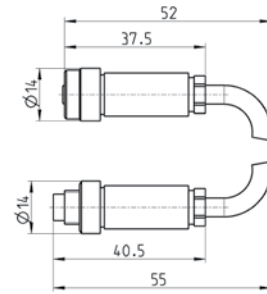
H	Series
A	Type: A = Accessories
0	Size: 0 = Not defined
1	Type of accessory: 1 = Input Module 2 = Output Module
-	
D	Type of module D = Digital

Multipole Connector - Accessory

G4X1-H-3	G4X1-H-3 = Multipole Pin 25 poles IP-65 90° series H cable of 3 m G4X1-H-5 = Multipole Pin 25 poles IP-65 90° series H cable of 5 m G9X1-H-3 = Multipole Pin 37 poles IP-65 90° series H cable of 3 m G9X1-H-5 = Multipole Pin 37 poles IP-65 90° series H cable of 5 m
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Expansion cable

New



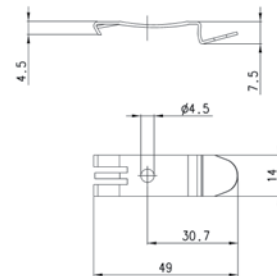
Mod.	Length
CS-FW05HE-D025	0,25 mt
CS-FW05HE-D100	1 mt
CS-FW05HE-D250	2,5 mt
CS-FW05HE-D500	5 mt
CS-FW05HE-DA00	10 mt

Mounting bracket for DIN rail

New



Supplied with:
2x mounting elements
2x screws M4x6 UNI 5931



Mod.	PCF-E520
------	----------

Power supply connector

New



Mod.	CS-LF04HB
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Connector with terminal resistance Cam.I.Net

New



Mod.	CS-FP05H0
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Profibus-DP connector for Bus IN

new



Mod.

CS-MF05HC

CANopen / DeviceNet connector for Bus IN

New

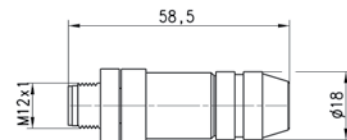


Mod.

CS-LF05HC

Profibus-DP connector for Bus OUT

New

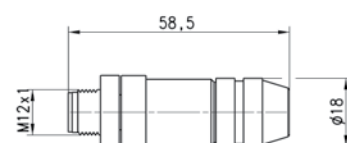


Mod.

CS-MM05HC

CANopen connector for Bus OUT

New

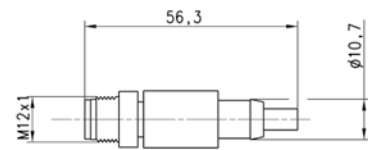


Mod.

CS-LM05HC

Male connector with termination resistance for Profibus-DP

New

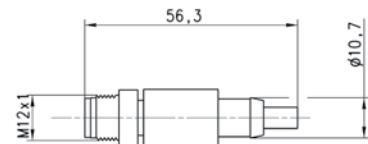


Mod.

CS-MQ05H0

Male connector with terminal resistance
CANopen and DeviceNet

New

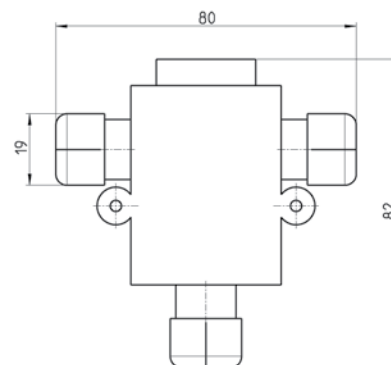


Mod.

CS-LP05H0

Data line tee for CAN network

New



Mod.

CS-AA05EC

Blanking plug M8 for inlets module

New



Mod.

CS-DFTP