HDM + MULTI-POLE CONNECTION

HDMs are the ideal solution for those requiring the unbeatable performance, flexibility and modularity of Multimach valves combined with sturdy mechanics and a high degree of protection against external agents. Each valve is enclosed in a reinforced technopolymer protective shell that acts as a shock-absorber and prevents the infiltration of dirt. The class of protection is IP65. The smooth, rounded design makes HDMs ideal for applications requiring frequent working without the deposit of residues. All the provingtic connections are on an washing without the deposit of residues. All the pneumatic connections are on one wasning without the deposit of residues. All the pheumatic connections are on side, with built-in push-in fittings. The user interface is on another side so that the fitter and the service engineer have everything at hand. Flexibility is total: there are 1-16 valves, input and output terminals for pipes of different sizes and intermediate modules for separate inputs and outputs. One very important new feature is that valves of different capacities can be mounted as required. Three different valve sizes can be combined at will. This means a valve can be replaced at any time by another one offering a different performance. It only takes a few seconds to replace or add a valve. To do this, merely loosen the two grub screws fixing the valve to the adjacent ones. Since the electrical signal is relayed from one valve to the next by means of gold-plated contacts connected to an electronic board, the electrical connections are entirely automatic.

The ratio of the HDM's flow rate to its dimensions is unrivalled - miniaturisation and efficiency have reached a peak.



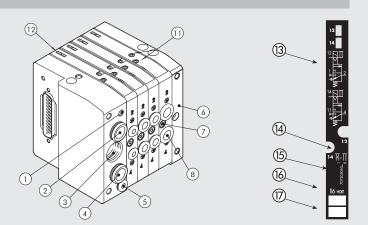
TECHNICAL DATA

	Ø 4,6,8,10 mm automatic fitting f	or ports 2 and 4 / power supply po	ort for Ø10 or Ø12 mm automatic	fitting / 3/8 thread for exhaust port,	M5 thread for exhaust pilot port
pilots			Automatic fitting Ø 4 mm		
			16		
		16 (same as the max. no. of pilots)			
°C			-10 to +60		
		Filtered air without lub	rication; lubrication, if us		
bar	Х	((pilot supply)		1-11 (valve supp	ly)
-		3 to 7		vacuum at 10	
nal 1			3 to 7		
			24VDC ± 10%		
W			0.9		
			PNP o NPN		
		I		t)	
			100% ED		
		11.5 mm Ø 6	14 mm Ø 8	23 mm Ø 8	23 mm Ø 10
			650		1200
on 5/3	200		300		500
ms		•			
ms		•			
ms		•			
ms					15
		otherwise the basket		eat by the flow of air.	
			See chapter Z1		
	vC bar hal 1-1 hal 1 W V V/min hd 3/2 on 5/3 ms ms ms ms	°C bar > nal 1-1 > nal 1-1 > w > w > w > w > w > w > w > w > w > w > w > w > w > w > w > w > w > w > w > w > w > w > w > w > w > w >	pilots C Filtered air without lub bar X (pilot supply) nal 1-1 W W V V If N/min 11.5 mm Ø 4 11.5 mm Ø 6 d 3/2 200 500 ms 8 / 45 ms 8 / 33 ms 20 / 20 ms 20 / 20 Insert the pipes in the	pilots Automatic fitting Ø 4 mm 16 16 (same as the max. no. of p °C °C °C °C °C °C °C °C °C °C	16 °C 16 (same as the max. no. of pilots) °C -10 to +60 Filtered air without lubrication; lubrication, if used, must be continuous bar X (pilot supply) nal 1-1 3 to 7 vacuum at 10 nal 1 3 to 7 V 0.9 PNP o NPN F155 IP65 (with conveyed exhust) 100% ED VI/min 11.5 mm Ø 4 11.5 mm Ø 4 11.5 mm Ø 6 14 mm Ø 8 23 mm Ø 8 al 3/2 200 500 ms 8 / 45 8 / / ms 8 / 33 9 / ms 20 / 20 8 / ms 20 / 20 15 / Insert the pipes in the fittings, before passing air through the valves, otherwise the basket may be pulled out of its seat by the flow of air.

COMPONENTS

- 1) Exhaust Solenoid pilot 82/84
- 2 3
- Valve supply port 1 Threaded connection of exhausts 3/5

- Walve supply port 11
 Electrical control supply X
 Blind end-plate or right end-plate 1-11
- Õ
- Screw for valve wall-mounting Utility port for pipe Ø 4, 6, 8 or 10 mm Manual control 8
- Ũ
- LED (LED on, solenoid valve energised) (12)
- Pneumatic symbol (13)
- Ĭ Identification of the monostable or bistable manual control
- (15) Valve ordering code
- 16 Valve identification code
- (7) Blank space for valve number

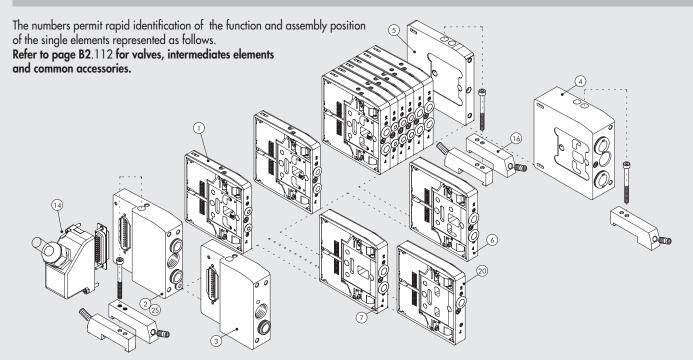


DISTRIBUTORS

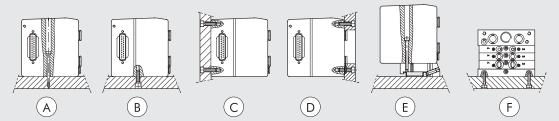
HDM + MULTI-POLE CONNECTION



THE MULTIMACH WORLD: FLEXIBILITY



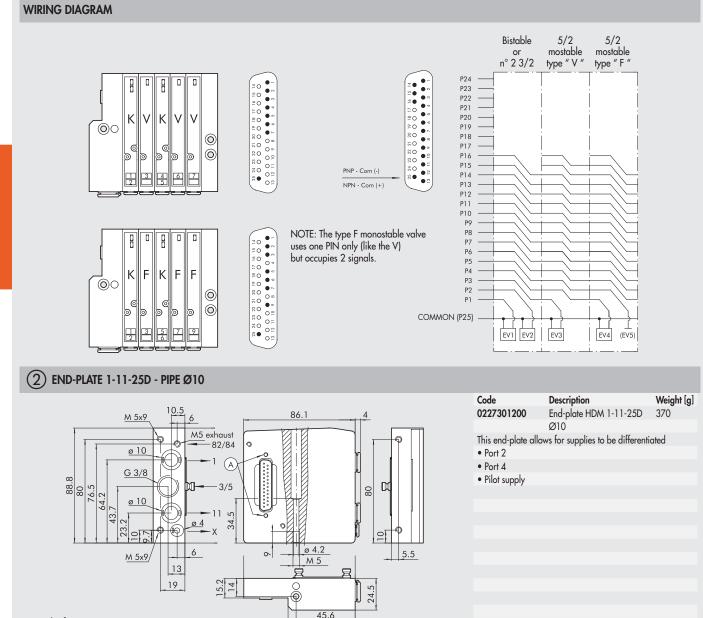
FIXING THE BASE



- A Fixing from above using the 1 or 1-11 input terminal and the blind terminal.
- © Fixing from above using the 1 or 1-11 input terminal and the blind terminal, using the M5 threads on the bottom and the rear of the terminals. Fixing from above using the 1 or 1-11 input terminal and the blind terminal, using the M5 threads on the front of the terminals. D
- An opening for the pipes is made in the plate.
- Fixing on the DIN bar with end-plate 1 or 1-11 and blind and plate, using the push-in bracket code 0227301600. Lateral fixing using the blind terminal, and its the M4 threads on the side lateral. E
- F Note: The sole fixing admitted is the one showed.

SYNOPTIC, SIZES AND VERSIONS

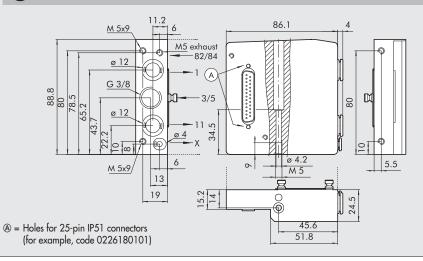
	0	0			14.14
HDM	2	8	М	16 - W 8 - W 6 - O 4 - L 8 - 5	14-16
VALVE	INPUT END-PLATE	ELECTRICAL BASE	MANUAL TYPE	TYPE OF VALVE	FURTHER DETAILS
Heavy duty Multimach IP65	 2 End-plate 1-11 pipe Ø 10 3 End-plate 1 pipe Ø 10 25 End-plate 1-11 pipe Ø 12 	8 D-Sub 25 wire	 M Monostable manual control B Bistable manual control 	 n° 2 3/2 NC W n° 2 3/2 NO J/2 NO + 3/2 NC V 5/2 monostable K 5/2 bistable O 5/3 monostable *F 5/2 monostable *F 5/2 monostable 4 right-end-plate 1-11 pipe Ø12 5 blind end-plate 6 Passing-intermede 7 Blind intermediate 20 Exhaust section 4 Cartridge 4 6 Cartridge 6 8 Cartridge 8 - 14 mm 85 Cartridge 8 - 23 mm 	14 IP65 25-wire shell 16 n° 2 brackets for DIN bar
* Uses a single PIN (like the V) and occupies 2	signals.		10 Cartridge 10	



51.8

(a) = Holes for 25-pin IP51 connectors (for example, code 0226180101)

(2\$) END-PLATE 1-11-25D - PIPE Ø12



Code	Description		Weight [g]
0227301220	End-plate HDM	1-11-25D	370
	Ø12		
This end-plate allo	ws for supplies to l	be differentio	ated
Port 2			
• Port 4			
 Pilot supply 			
,			

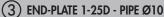
Description

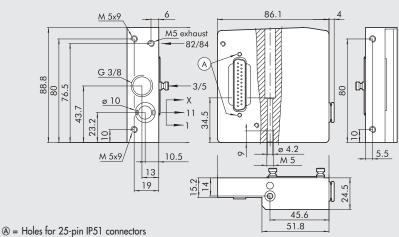
Ø10

End-plate HDM 1-25D

Code

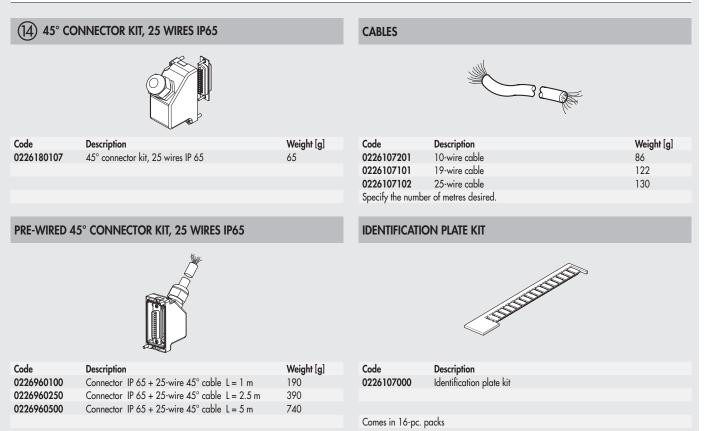
0227301201





(for example, code 0226180101)

ACCESSORIES



WIRING DIAGRAM FOR PRE-WIRED PLUG CONNECTOR

25 PIN							
Position of	Colour of the						
electrical contact	corresponding wire						
1	blue/black	9	red/black	17	orange/white	25	green/black
2	red/brown	10	brown/white	18	green		
3	white/black	11	red/orange	19	yellow/black		
4	red/blue	12	light blue	20	white		
5	black/orange	13	yellow/white	21	blue/white		
6	yellow/red	14	yellow	22	brown		
7	black/brown	15	red/green	23	green/white		
8	white/red	16	orange	24	red		

B2

Weight [g]

370

HDM + AS-Interface

DISTRIBUTORS

B2

The HDM+AS-Interface system has been designed in such a way that the pneumatic input terminal contains all the electronics, signals and AS-I connectors. It is a very compact and sturdy system where everything is housed in a thick casing aluminium to protect the delicate components against impact. The valves and accessories are HDM standard, which means that you only need to replace the input terminal to convert the valve island with multiple connector into an AS-I island. All the advantages of the HDM system can be exploited: the possibility of mounting valves of different size, with fittings for pipes 4, 6, 8 or 10; the insertion of intermediate modules with separate power supply or outlets; aluminium valves with chemical nickel plating enclosed in a protective casing in reinforced technopolymer, with an index of protection IP65. The arrangement of the functions continues the traditional optimisation of the HDMs: the user interface of the valves and bus all on one side, so that the fitter and service engineer have everything within easy reach: all compressed air connections on the other side; the connectors for AS-I cables on the opposite side longitudinally, so that several valve islands can be arranged in line, fixed on a DIN bar. There are many AS-I terminal variants to meet all possible requirements:

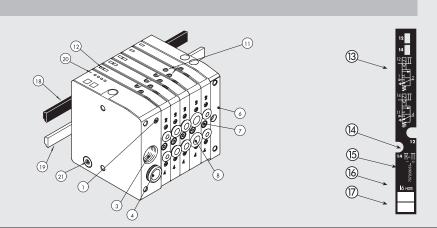
with 1 node, for controlling up to 4 valve solenoid pilots;

 so that several valve islands can be arrang. There are many AS-I terminal variants to r with 1 node, for controlling up to 4 val with 2 nodes, for controlling up to 8 so with 1 note for output and input for cor up to 4 input signals. The input connect with 2 nodes for output and input for cor up to 8 input signals with M8 connecto power supply with the AS-I yellow cable traditional V.2.1 addressing or extender numbers which can be connected up to Note: if you use valves 85 type or 10 exp pressure is at least 6 bar (to avoid the pr 	neet all possible req ve solenoid pilots; lenoid pilots; ntrolling up to 4 sole tors are M8 or M12, ontrolling up to 8 so rs; e only; w AS-1 cable and th ed AB V.3.0 address o 62 and for a better sloiting their flow cc	uirements: noid pilots and receiving enoid pilots and receivir e black power supply ca for an increase in the nc diagnostics pacity it is necessary th	ng ble. vde	0000		
TECHNICAL DATA						
Valve port connections		Ø 4,6,8,10 mm	automatic fitting for port	s 2 and 4 / power suppl	y port for Ø10 or 12* (automatic fitting /
			3/8 thread for exh	aust port, M5 thread fo	r exhaust pilot port	
Maximum number of pilots			Terminal with	1 node = 4 / terminal w	ith 2 node = 8	
Maximum number of valves		Terminal with 1 node	= 4 (same as the max. n	o. of pilots) / terminal wi	th 2 node = 8 (same as	the max. no. of pilots)
Operating temperature range	°C			-10 to +60		
Fluid			Filtered air without lub	rication; lubrication, if us	ed, must be continuous	
Pressure range			X (pilot supply)		1-11 (valve supply)	
	Terminal 1-11		3 to 7 bar		vacuum at 10 bar	
	Terminal 1			3 to 7 bar		
Voltage range				24VDC ±10%		
Power for each pilot	W			0.9		
Solenoid Pilot Insulation class				F155		
Degree of protection		IF	o 65 (with conveyed exh	aust, and unused INPUTS	S sealed with caps/pluc	is)
Solenoid rating			, , ,	100% ED	1.1.0	
Flow rate at 6.3 bar ΔP 1 bar	Nl/min	11.5 mm Ø 4	11.5 mm Ø 6	14 mm Ø 8	23 mm Ø 8	23 mm Ø 10
ver	sion $5/2$ and $3/2$	200	500	650	1000	1200
	version 5/3	200	300	300	500	500
TRA/TRR 2x3/2 monostable at 6 bar	ms		8 / 45		8 /	/ 60
TRA/TRR 5/2 monostable at 6 bar	ms		8 / 33			/ 60
TRA/TRR 5/2 bistable at 6 bar	ms		20 / 20			/ 8
TRA/TRR 5/3 cc monostable at 6 bar	ms		20 / 20			/ 15
Note on use		Insert the pipes in the f		ir through the valves, oth		
				by the flow of air.		
			*	with right-end-plate 1-1	1	
Compatibility with oils				See chapter Z1		

COMPONENTS

- Exhaust Solenoid pilot 82/84 Threaded connection of exhausts 3/5 Valve supply port 1-11-X Blind end-plate or right-end-plate 1-11 Screw for valve wall-mounting Utility port for pipe Ø 4, 6, 8, 10 mm Manual control

- LED (LED on, solenoid valve energised)
- Pneumatic symbol Identification of the monostable or bistable manual control
- Valve ordering code
- Valve identification code
- Blank space for valve number
- Black cable for 24V (if present) AS-INTERFACE yellow cable
- AS-INTERFACE led
- $\widecheck{0}$





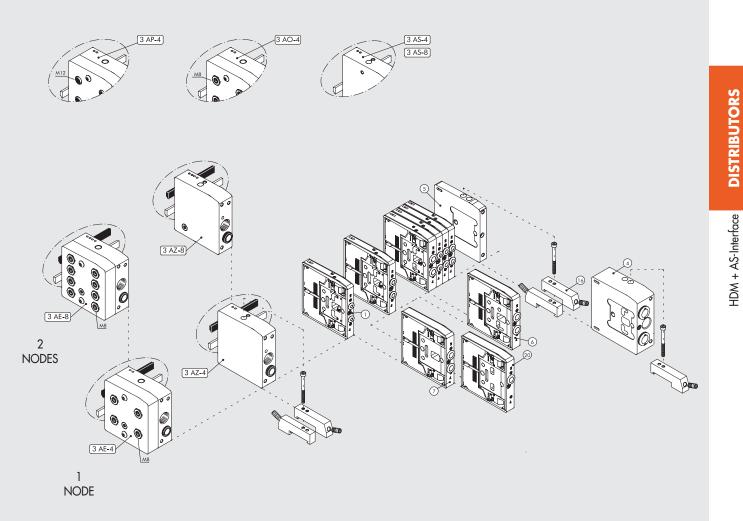


B2

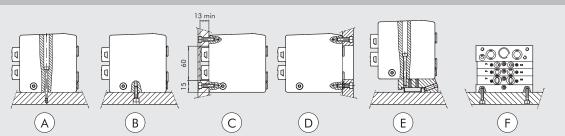
THE MULTIMACH WORLD: FLEXIBILITY

The numbers permit rapid identification of the function and assembly position of the single elements represented as follows.

Refer to page B2.112 for valves, intermediates elements and common accessories.



FIXING THE BASE



- (a) Fixing from above using the 1 or 1-11 input terminal and the blind terminal.
- © Fixing from above using the 1 or 1-11 input terminal and the blind terminal, using the M5 threads on the bottom and the rear of the terminals.
 © Fixing from above using the 1 or 1-11 input terminal and the blind terminal, using the M5 threads on the front of the terminals.
- An opening for the pipes is made in the plate.
- (E) Fixing on the DIN bar with end-plate 1 or 1-11 and blind and plate, using the push-in bracket code 0227301600.
- (E) Lateral fixing using the blind terminal, and its the M4 threads on the side lateral.
- Note: The sole fixing admitted is the one showed.

S	
Ö	
Ę	
8	
2	
S	

B2

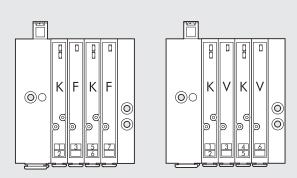
HDM	3	A S - 4	M	l6 - W 8 - 5	16
VALVE	INPUT END-PLATE	ELECTRICAL BASE	MANUAL TYPE	TYPE OF VALVE	FURTHER DETAILS
Heavy duty Multimach IP65	3 End-plate 1	 Version with standard address AS-4 1 node, 4 out, yellow cable AS-8 2 nodes, 8 out, yellow cable AO-4 1 node, 4 out e 4 in M8, yellow cable AP-4 1 node, 4 out e 4 in M12, yellow cable AZ-4 1 node, 4 out e 4 in M12, yellow cable and black cable AZ-4 1 node, 4 out, yellow cable and black cable AZ-8 2 nodes, 8 out, yellow cable and black cable AE-4 1 node, 4 out e 4 in M8, yellow cable and black cable AZ-8 2 nodes, 8 out, yellow cable and black cable AE-4 1 node, 4 out e 4 in M8, yellow cable and black cable AE-8 2 nodes, 8 out e 8 in M8, yellow cable and black cable 	 M Monostable manual control B Bistable manual control 	 n° 2 3/2 NC W n° 2 3/2 NO J/2 NO + 3/2 NC V 5/2 monostable K 5/2 bistable O 5/3 monostable *F 5/2 monostable 4 right-end-plate 1-11 pipe Ø12 5 blind end-plate 6 Passing-intermede 7 Blind intermediate 20 Exhaust section 4 Cartridge 4 6 Cartridge 6 8 Cartridge 8 - 14 mm 85 Cartridge 8 - 23 mm 10 Cartridge 10 	16 n° 2 brackets for DIN bar

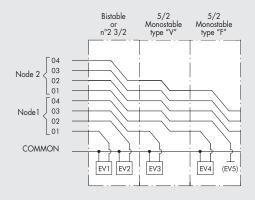
SYNOPTIC, SIZES AND VERSIONS

* Uses a single PIN (like the V) and occupies 2 signals

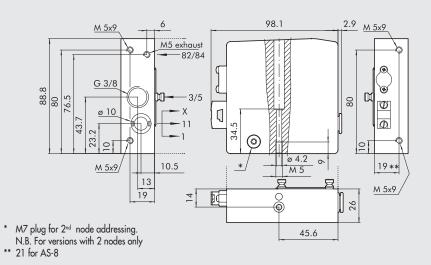
WIRING DIAGRAM

NOTE: The type f monostable valve uses one PIN only (like the V) but occupies 2 signals.





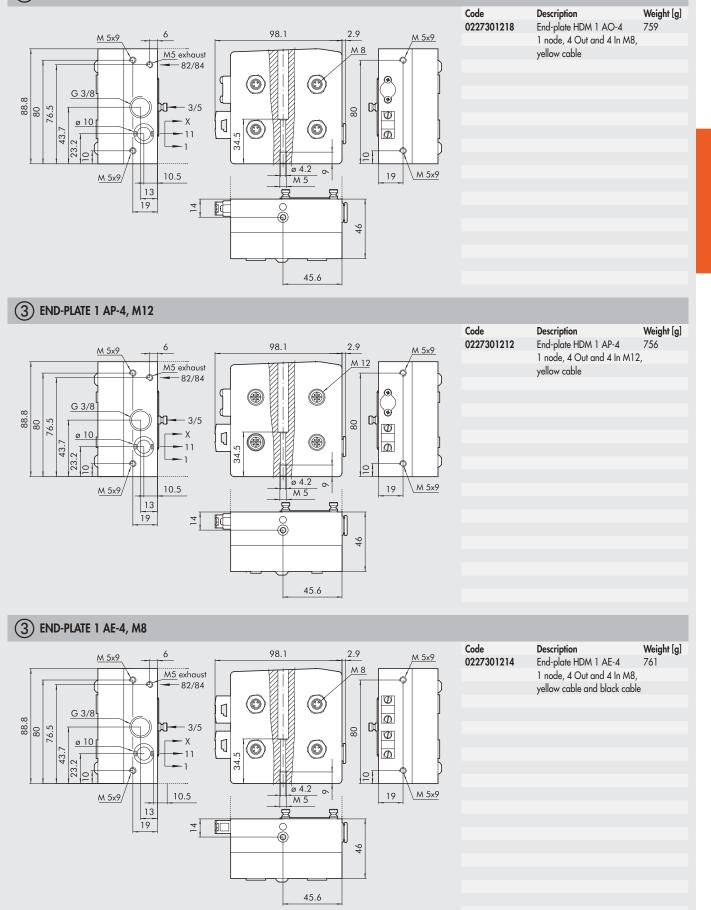
(3) END-PLATE 1 AS-4, AS-8



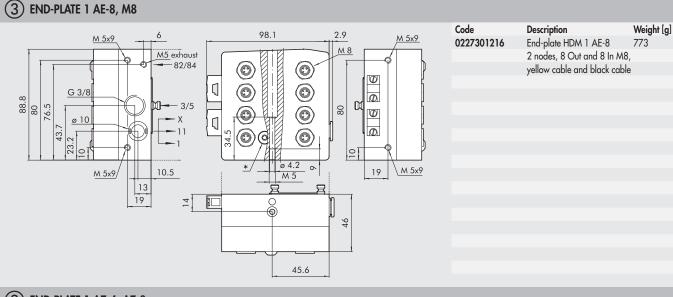
Code	Description	Weight [g]
0227301202	End-plate HDM 1 AS-4	465
	1 node, 4 Out, yellow cable	
0227301208	End-plate HDM 1 AS-8	454
	2 nodes, 8 Out, yellow cabl	e



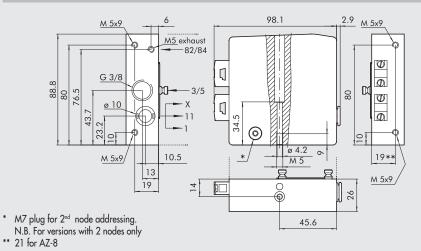
(3) END-PLATE 1 AO-4, M8



B2



(3) END-PLATE 1 AZ-4, AZ-8



Code	Description	Weight [g]
0227301204	End-plate HDM 1 AZ-4	467
	1 node, 4 Out,	
	yellow cable and black cat	ole
0227301210	End-plate HDM 1 AZ-8	456
	2 nodes, 8 Out,	
	yellow cable and black cat	ole

SPARES

AS-interface CONNECTOR KIT





M8 - M12 PLUG

Code

Code

0240009039

0240009040

0226950150

ACCESSORIES

AS-interface ADDRESS CONNECTOR KIT Pin 3 = blu

Description

O





Description AS-interface connector kit

HDM + PROFIBUS-DP



The HDM+PROFIBUS system has been designed in such a way that the pneumatic input terminal contains all the electronics, signals and connectors. It is a very compact and sturdy system where everything is housed in a thick casing aluminium to protect the delicate components against impact. The valves and accessories are HDM standard, which means that you only need to replace the input terminal to convert the valve island with multiple connector into an PROFIBUS island. All the advantages of the HDM system can be exploited: the possibility of mounting valves of different size, with fittings for pipes 4, 6, 8 or 10; the insertion of intermediate modules with separate power supply or outlets; aluminium valves with chemical nickel plating enclosed in a protective casing in reinforced technopolymer, with an index of protection IP65.

The arrangement of the functions continues the traditional optimisation of the HDM: the user interface of the valves and bus all on one side, so that the fitter and service engineer have everything within easy reach: all compressed air connections are on the other side, and the electrical connectors and selectors are at the end of the island.

It is advisable to earth the system to prevent electrical or electrostatic discharge from damaging the electronic circuit.

TECHN



TECHNICAL DATA						
Valve port connections		Ø 4,6,8,10 mm	Ø 4,6,8,10 mm automatic fitting for ports 2 and 4 / power supply port for Ø10 or 12* automatic fitting / 3/8 thread for exhaust port, M5 thread for exhaust pilot port			automatic fitting /
Connection on the end-plate 1-11 for the	e supply of pilots			aust port, M5 thread to Automatic fitting Ø 4 mm		
Maximum number of pilots	e supply of pilois		F	16	1	
Maximum number of valves			16/0	ame as the max. no. of p	vilots)	
Operating temperature range	°C		-10 to +60			
Fluid	C		Filtorod air without lubr	ication; lubrication, if us	ad must be continuous	
Pressure range)	(pilot supply)	iculion, lobriculion, il os	1-11 (valve sup	
ressore runge	Terminal 1-11	/	3 to 7 bar		vacuum at 10	1 / 1
	Terminal 1		0107 601	3 to 7 bar	vacooni ai ro	bui
Voltage range				24 VDC ±10%		
, energe range			(slave protected	against overload and r	everse polarity)	
Power for each pilot	W			0.9		
Solenoid Pilot Insulation class			F155			
Degree of protection		IP65 (with	conveyed exhust, and tha		e BLIS OLIT connector o	ets plugged)
Solenoid rating		1 00 (wiii) (controj ca contosi, and ma	100% ED	e bee een connector g	on progged
Flow rate at 6.3 bar ΔP 1 bar	Nl/min	11.5 mm Ø 4	11.5 mm Ø 6	14 mm Ø 8	23 mm Ø 8	23 mm Ø 10
	ersion 5/2 and 3/2	200	500	650	1000	1200
	version 5/3	200	300	300	500	500
TRA/TRR 2x3/2 monostable at 6 bar	ms	200	8 / 45	000		/ 60
TRA/TRR 5/2 monostable at 6 bar	ms		8 / 33			/ 60
TRA/TRR 5/2 bistable at 6 bar	ms		20 / 20			/ 8
TRA/TRR 5/3 cc monostable at 6 bar			20 / 20			/ 15
Note on use		Insert the pipes in the	fittings, before passing a	ir through the valves.oth	erwise the gasket may	be pulled out of its seat
				by the flow of air.		
			*,	with right-end-plate 1-1	1	
Compatibility with oils		See chapter Z1				
. ,						
Profibus-DP module for HDM valves						
Protection			Outputs protec	ted against overloads ar	nd shortcircuits	
Max input power (all valves ON)				~500 mA		
Addressing				By rotary selectors		
Highest settable address number				99		
Default address				3		
Peripheral defect diagnosis				D indicator and relay to		
Defects reported				put shortcircuit or overlo		
				kiliary power supply fail		
Module status in the event of periphere	al defect	Profibus communication active.				
			The "peripheral defect"		ole at the master station	
Data bit value				0 = not enabled		
				1 = enabled		
Output status in the absence of commu	unication			Disabled		

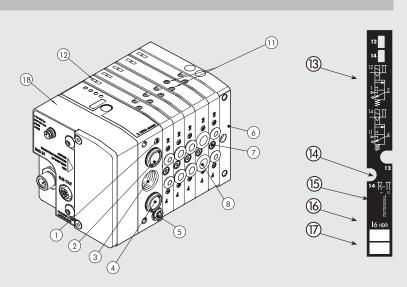
DISTRIBUTORS

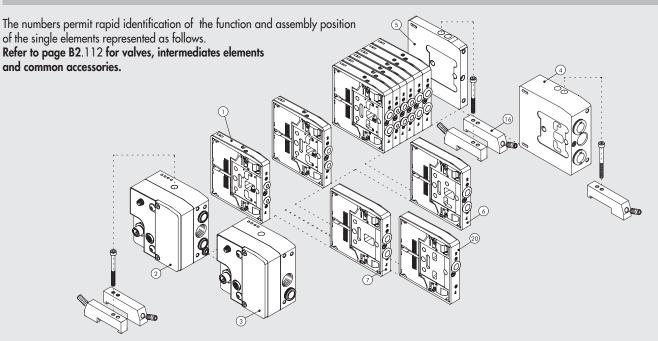
HDM + PROFIBUS-DP

COMPONENTS

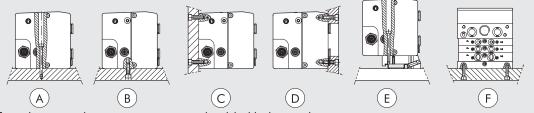
- 1) Exhaust Solenoid pilot 82/84
- 2 Valve supply - port 1
- Threaded connection of exhausts 3/5
- ③ Threaded connection c④ Valve supply port 11
- (5) Electrical control supply X
- 6 Blind end-plate or right-end-plate-1-11
- ⑦ Screw for valve wall-mounting
- (8) Utility port for pipe Ø 4, 6, 8 or 10 mm
- (1) Manual control
- LED (LED on, solenoid value energised)
- (13) Pneumatic symbol
- (4) Identification of the monostable or bistable manual control
- Valve ordering code (15)
- Valve identification code (16)
- Blank space for valve number (17)
- (18) Profibus terminal

THE MULTIMACH WORLD: FLEXIBILITY





FIXING THE BASE



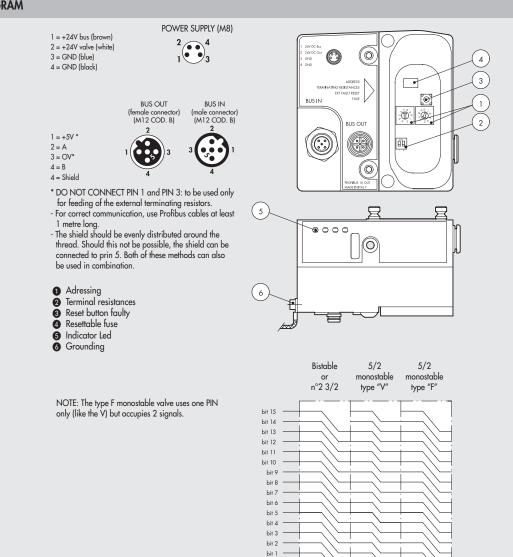
- Fixing from above using the 1 or 1-11 input terminal and the blind terminal. A
- (B) C Fixing from above using the 1 or 1-11 input terminal and the blind terminal, using the M5 threads on the bottom and the rear of the terminals.
- Fixing from above using the 1 or 1-11 input terminal and the blind terminal, using the M5 threads on the front of the terminals. D An opening for the pipes is made in the plate.
- E Fixing on the DIN bar with end-plate 1 or 1-11 and blind and plate , using the push-in bracket code 0227301600.
- Lateral fixing using the blind terminal, and its the M4 threads on the side lateral. F
- Note: The sole fixing admitted is the one showed.



SYNOPTIC, SIZES AND VERSIONS

Heavy duty Multimach IP652End-plate 1-11 SPProfibus-DPMMonostable manual controlIn° 2 3/2 NC NCMn° 2 brackets for DIN bar3End-plate 1BBistable manual controlI3/2 NO + 3/2 NC VV5/2 monostable K5/2 bistable O5/3 monostable F16n° 2 brackets for DIN bar	H D M	2	P	M	16 - W 8 - W 6 - O 4 - L 8 - 5	16
* Uses a single PIN (like the V) and occupies 2 signals. 20 Exhaust section 4 Cartridge 4 6 Cartridge 6 8 Cartridge 8 - 14 mm 85 Cartridge 8 - 23 mm 10 Cartridge 10	Multimach IP65	3 End-plate 1		control B Bistable manual	 W n° 2 3/2 NO L 3/2 NO + 3/2 NC V 5/2 monostable K 5/2 bistable O 5/3 monostable *F 5/2 monostable *F 5/2 monostable 4 right-end-plate 1-11 pipe Ø12 5 blind end-plate 6 Passing-intermede 7 Blind intermediate 20 Exhaust section 4 Cartridge 4 6 Cartridge 6 8 Cartridge 8 - 14 mm 85 Cartridge 8 - 23 mm 	FURTHER DETAILS 16 n° 2 brackets for DIN bar

WIRING DIAGRAM



bit 0

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EV1 EV2

EV3

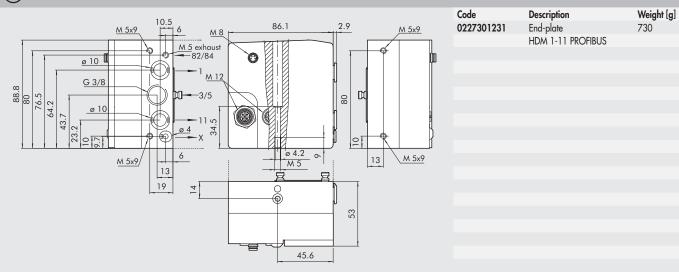
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EV4 (EV5)

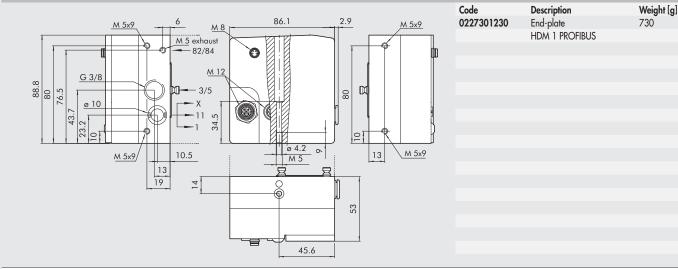
B2

B2.95

(2) END-PLATE 1-11 PROFIBUS-DP



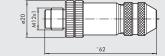
(3) END-PLATE 1 PROFIBUS-DP



ACCESSORIES







Code 0240009035

Description M12 male connector B coding

M8 CONNECTOR FOR POWER SUPPLY



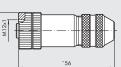
Black



Code	Description
0240009060	M8 4-pin female connector for power supply, cable L = 3 m
0240009037	M8 4-pin female connector for power supply, cable L = 5 m
0240009058	M8 4-pin female connector for power supply, cable L = 10 m
0240009059	M8 4-pin female connector for power supply, cable L = 15 m

M12 FEMALE CONNECTOR IN-BUS





Code 0240009036

Description M12 female connector B coding

ø20

M8 - M12 PLUG



Code Description 0240009039 Plug M8 0240009040 Plug M12

HDM + EtherNet/IP



The HDM+EtherNet/IP system has been designed in such a way that the pneumatic input terminal contains all the electronics, signals and connectors. It is a very compact and sturdy system where everything is housed in a thick casing aluminium to protect the delicate components against impact.

The valves and accessories are HDM standard, which means that you only need to replace the input terminal to convert the valve island with multiple connector into an EtherNet/IP island. All the advantages of the HDM system can be exploited: the possibility of mounting valves of different size, with fittings for pipes 4, 6, 8 or 10; the insertion of intermediate modules with separate power supply or outlets; aluminium valves with chemical nickel plating enclosed in a protective casing in reinforced technopolymer, with an index of protection IP65. The arrangement of the functions continues the traditional optimisation of the HDM: the user interface of the valves and bus all on one side,

so that the fitter and service engineer have everything within easy reach: all compressed air connections are on the other side, and the electrical connectors and selectors are at the end of the island. It is advisable to earth the system to prevent electrical or electrostatic

discharge from damaging the electronic circuit.



TECHNICAL DATA						
Valve port connections		Ø 4,6,8,10 mm automatic fitting for ports 2 and 4 / power supply port for Ø10 or 12* automatic fitting / 3/8 thread for exhaust port, M5 thread for exhaust pilot port				
Connection on the end-plate 1-11 fo	r the supply of pilots			Automatic fitting Ø 4 mr		
Maximum number of pilots	,	16				
Maximum number of valves	00		16 (same as the max. no. of pilots)			
Operating temperature range Fluid	°C		Filtered air without lubri	-10 to +60		
Pressure range		>	((pilot supply)	ication; lubrication, ir u	1-11 (valve sup	
	Terminal 1-11	,	3 to 7 bar		vacuum at 10	1 / 1
	Terminal 1			3 to 7 bar		
Voltage range				24 VDC ±10%		
Power for each pilot	W		(slave protected	against overload and 1 0.9	reverse polarity)	
Solenoid Pilot Insulation class	٧٧			0.9 F155		
Degree of protection		IP65 (with a	conveyed exhust, and tha		e BUS OUT connector o	jets plugged)
Solenoid rating				100% ED		
Flow rate at 6.3 bar ΔP 1 bar	NI/min	11.5 mm Ø 4	11.5 mm Ø 6	14 mm Ø 8	23 mm Ø 8	23 mm Ø 10
	version 5/2 and 3/2 version 5/3	200 200	500 300	650 300	1000	1200 500
TRA/TRR 2x3/2 monostable at 6 k		200	8 / 45	300		/ 60
TRA/TRR 5/2 monostable at 6 bar			8 / 33		9 / 60	
TRA/TRR 5/2 bistable at 6 bar	ms		20 / 20			/ 8
TRA/TRR 5/3 cc monostable at 6 k	bar ms		20 / 20			/ 15
Note on use		Insert the pipes in the	fittings, before passing a		nerwise the gasket may	be pulled out of its seat
			*\	by the flow of air. with right-end-plate 1-1	1	
Compatibility with oils				See chapter Z1		
EtherNet/IP module for HDM valv	res					
Field buses		Ether	Net/IP - 10/100 Mbit/s -	Halt-duplex - Full-duple Cmseries - Address IP 1		otiation
Factory settings Addressing				Software DHCP/BOOT		
Voltage range			,	24VDC ± 10%		
Maximum number of pilots (Out)				16		
Maximum number of valves				on the maximum numb		
Icc bus supply current Maximum absorption of a valve di	anthe atom	Nominal Icc 120 mA - Instantaneous Icc (< 2 ms) 450 mA Nominal Icc with 120mA OFF valves - Nominal Icc with 580 mA ON valves				
block with 16 mono-stable valve		Г		OFF valves - Nominal I		ves
Protections		Module protected c	igainst overload and pold	arity reversal. Outputs p	protected against overloo	ads and short-circuits
Connections			Field bus: 2 N	12 Female, D-coded, i	nternal switch	
				y: M8 4 pin - input: M8		
Data bit value Output status in the absence of cor	munication		0 =	not enabled - 1 = enabled	bled	
Colpor sicilos in the absence of col				Disablea		

DISTRIBUTORS

HDM + EtherNet/IP

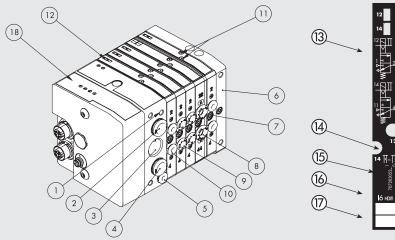
COMPONENTS

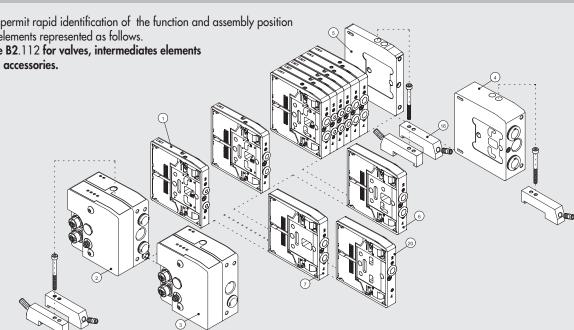
- 1) Exhaust Solenoid pilot 82/84
- 2 Valve supply - port 1
- Threaded connection of exhausts 3/5
- ③ Threaded connection c④ Valve supply port 11
- (5) Electrical control supply X
- 6 Blind end-plate or right-end-plate-1-11
- ⑦ Screw for valve wall-mounting
- (8) Utility port for pipe Ø 4, 6, 8 or 10 mm
- (1) Manual control
- LED (LED on, solenoid value energised)
- (13) Pneumatic symbol
- (4) Identification of the monostable or bistable manual control
- Valve ordering code (15)
- Valve identification code (16)
- Blank space for valve number (17)
- (18) Profibus EtherNet/IP

THE MULTIMACH WORLD: FLEXIBILITY

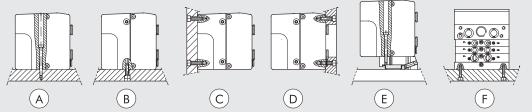
The numbers permit rapid identification of the function and assembly position of the single elements represented as follows.

Refer to page B2.112 for valves, intermediates elements and common accessories.





FIXING THE BASE



- Fixing from above using the 1 or 1-11 input terminal and the blind terminal. (A)
- (B) C Fixing from above using the 1 or 1-11 input terminal and the blind terminal, using the M5 threads on the bottom and the rear of the terminals.
- Fixing from above using the 1 or 1-11 input terminal and the blind terminal, using the M5 threads on the front of the terminals. D An opening for the pipes is made in the plate.
- E Fixing on the DIN bar with end-plate 1 or 1-11 and blind and plate , using the push-in bracket code 0227301600.
- Lateral fixing using the blind terminal, and its the M4 threads on the side lateral. F
- Note: The sole fixing admitted is the one showed.



SYNOPTIC, SIZES AND VERSIONS

H D M 2 EN M	16 - W 8 - W 6 - O 4 - L 8 - 5	16
VALVE INPUT END-PLATE ELECTRICAL BASE MANUAL TYPE	TYPE OF VALVE	FURTHER DETAILS
Heavy duty Multimach IP65 2 End-plate 1-11 EN EtherNet/IP M Monostable manual control B Bistable manual control B Bistable manual control	 n° 2 3/2 NC W n° 2 3/2 NO U 3/2 NO + 3/2 NC V 5/2 monostable K 5/2 bistable O 5/3 monostable *F 5/2 monostable 4 right-end-plate 1-11 pipe Ø12 5 blind end-plate 6 Passing-intermede 7 Blind intermediate 20 Exhaust section 4 Cartridge 4 6 Cartridge 4 8 Cartridge 8 - 14 mm 85 Cartridge 8 - 23 mm 10 Cartridge 10 	16 n° 2 brackets for DIN bar

* Uses a single PIN (like the V) and occupies 2 signals.

WIRING DIAGRAM

⚠

catalogue.

WARNING

For correct communication use only Industrial Ethernet cables.

Cat. 5 / Class D 100 MHz, like the one in the Metal Work

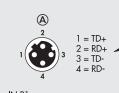
- \circledast Connection to the EtherNet/IP network
- (B) Connection for node supply and auxiliary valve supply
- © HDM diagnostics indicator light
- D EtherNet/IP diagnostics indicator light

OUT P2 (female connector M12 cod. D)

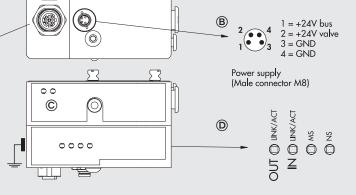
1 = TD+

2 = RD+ 3 = TD-4 = RD-

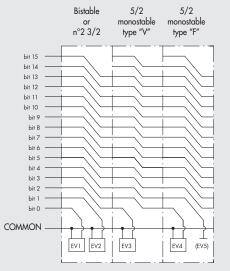
A



IN P1 (female connector M12 cod. D)



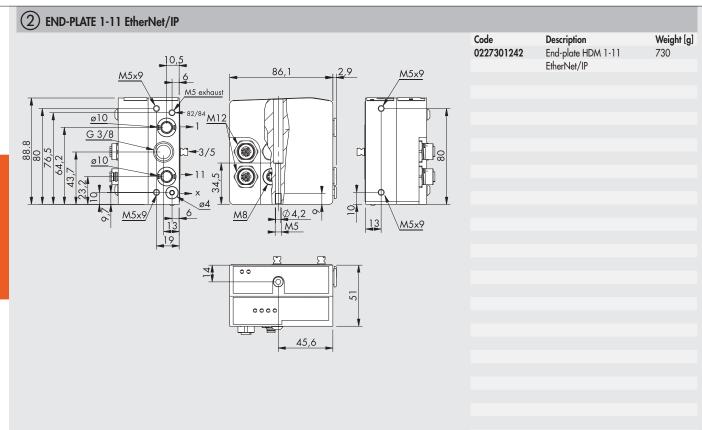
NOTE: The type F monostable valve uses one PIN only (like the V) but occupies 2 signals.



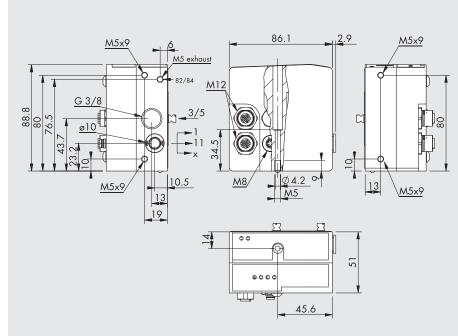
 \bigcirc

HDM + EtherNet/IP DISTRIBUTORS

B2



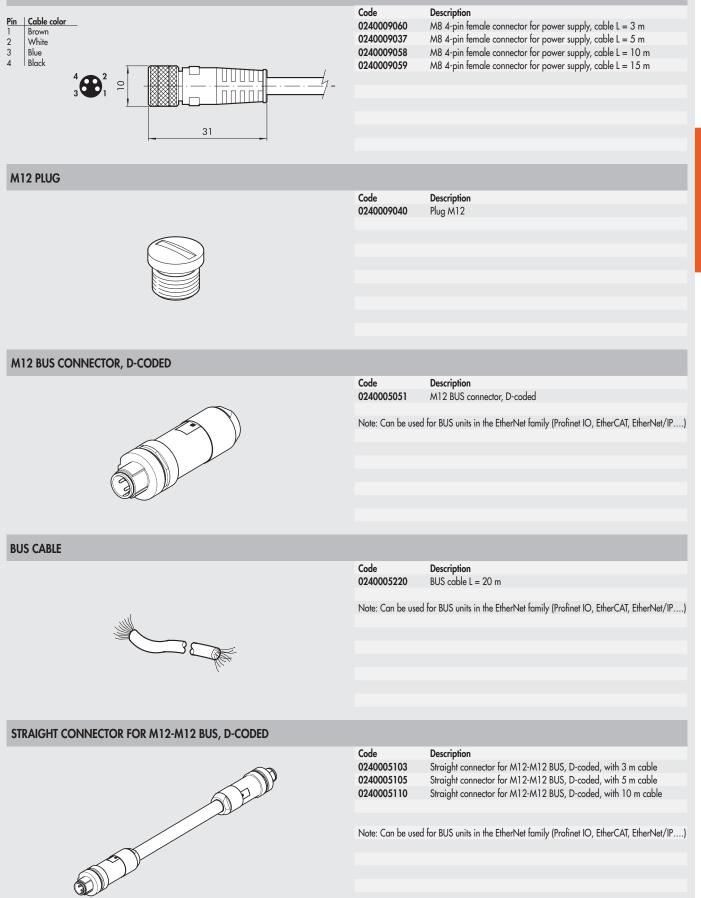
3 END-PLATE 1 EtherNet/IP



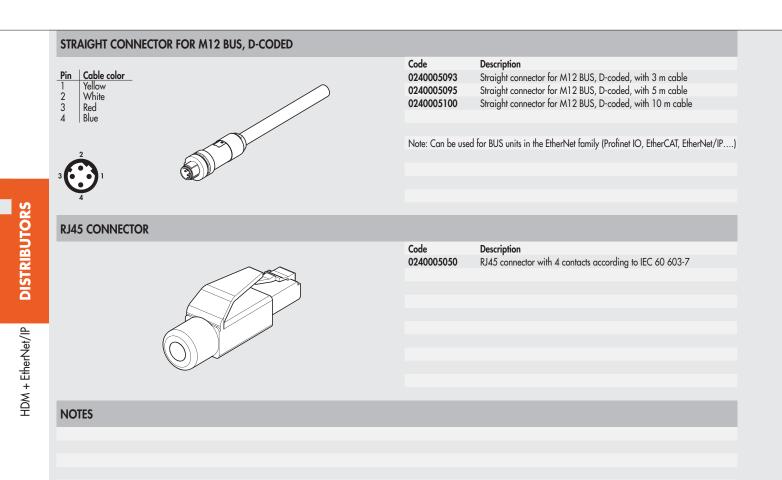
Code 0227301243	Description End-plate HDM 1 EtherNet/IP	Weight [g] 730

ACCESSORIES

M8 CONNECTOR FOR POWER SUPPLY



HDM + EtherNet/IP DISTRIBUTORS



HDM + CANopen



The HDM+CANopen system has been designed in such a way that the pneumatic input terminal contains all the electronics, signals and connectors. It is a very compact and sturdy system where everything is housed in a thick casing aluminium to protect the delicate components against impact. Two versions of end-plate are available: one can handle up to 16 controls (16 Out) and one up to 16 controls and 8 inputs (16 Out + 8 ln). The input connectors are M12. Two inputs can be connected to each connector. The functions are arranged to ensure the same optimisation as the HDMs. The user interface is all on one side to facilitate the work of the fitter and service engineer. All pneumatic connections are on one side; the electrical connectors and selectors are on top of the island.



TECHNICAL DATA						
Valve port connections		Ø 4,6,8,10 mm	automatic fitting for port	ts 2 and 4 / power supp	oly port for Ø10 or 12* (automatic fitting /
				naust port, M5 thread f		Ŭ
Connection on the end-plate 1-11 for	r the supply of pilots	Automatic fitting Ø 4 mm				
Maximum number of pilots				16		
Maximum number of valves			16 (s	ame as the max. no. of	pilots)	
Operating temperature range	°C			-10 to +60		
Fluid			Filtered air without lub	rication; lubrication, if u	used, must be continuous	
Pressure range		Х	(pilot supply)		1-11 (valve sup	1 / 1
	Terminal 1-11		3 to 7 bar		vacuum at 10	bar
	Terminal 1			3 to 7 bar		
Voltage range				24VDC ±10%		
			(slave protected	d against overload and	reverse polarity)	
Power for each pilot	W			0.9		
Solenoid Pilot Insulation class			in and the second se	F155	1 1 1	
Degree of protection		IP65 (with conveyed exhausts and with not used connectors plugged)				
Solenoid rating				100% ED		
Flow rate at 6.3 bar ΔP 1 bar	NI/min	11.5 mm Ø 4	11.5 mm Ø 6	14 mm Ø 8	23 mm Ø 8	23 mm Ø 10
	version 5/2 and 3/2	200	500	650	1000	1200
	version 5/3	200	300	300	500	500
TRA/TRR 2x3/2 monostable at 6 bar			8 / 45			60
TRA/TRR 5/2 monostable at 6 bar TRA/TRR 5/2 bistable at 6 bar	ms		8 / 33			60
TRA/TRR 5/2 bistable at 6 bar TRA/TRR 5/3 cc monostable at 6 bar	ms		20 / 20 20 / 20			/ 8 / 15
Note on use						/
		insen me pipes in me n	nings, before passing an	the flow of air.	el wise ine guskel muy be	e pulled out of its seat by
			*	with right-end-plate 1-	11	
Compatibility with oils				See chapter Z1	11	
CANopen module for HDM valves						
Protection			Outputs protec	cted against overloads o	and shortcircuits	
Max input power (all valves ON)			(P P	~800 mA		
Addressing				By DIP SWITCH		
Highest settable address number				127		
Default address				1		
Peripheral defect diagnosis			Local LE	ED indicator and relay t	o Master	
Defects reported			Ou	tput shortcircuit or overl	oad.	
				xiliary power supply fai		
Module status in the event of periphe	eral defect			Nopen communication c		
			The "peripheral defect"		ible at the master station	
Data bit value				0 = not enabled		
				1 = enabled		
Output status in the absence of comm	nunication			Disabled		
INPUT module for HDM valves						
Sensor supply voltage			24 VDC ±10% (depe	ending on the supply of t	the CANopen module)	
Max sensor power (distribuited over	eight connectors) mA			40		
Type of input				r 2-3 wires according to		
Protection				outs against overload ar		
Active INPUT signalling				One LED for each INPU	Т	

DISTRIBUTORS

HDM + CANopen

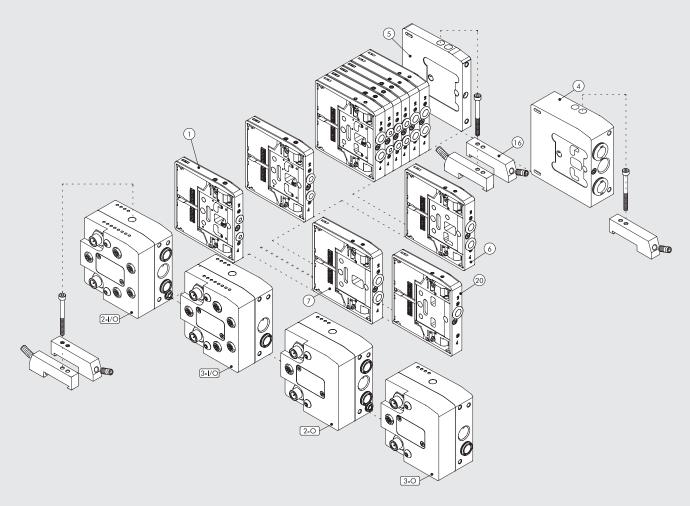
COMPONENTS

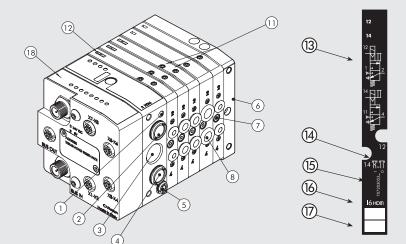
- Exhaust Solenoid pilot 82/84
 Valve supply port 1
 Threaded connection of exhausts 3/5
 Valve supply port 11
 Electrical control supply X
 Blind end-plate or right-end-plate 1-11
 Screw for valve wall-mounting
 Utility port for pipe Ø 4, 6, 8 or 10 mm
 Manual control
- (2) LED (LED on, solenoid valve energised)
- 13 Pneumatic symbol
- (4) Identification of the monostable or bistable manual control
- (15) Valve ordering code
- 16 Valve identification code
- (7) Blank space for valve number
- 18 CANopen terminal

THE MULTIMACH WORLD: FLEXIBILITY

The numbers permit rapid identification of the function and assembly position of the single elements represented as follows.

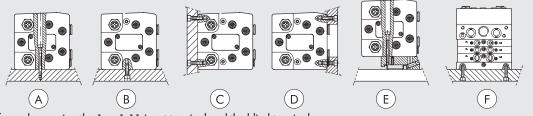
Refer to page B2.112 for valves, intermediates elements and common accessories.







FIXING THE BASE

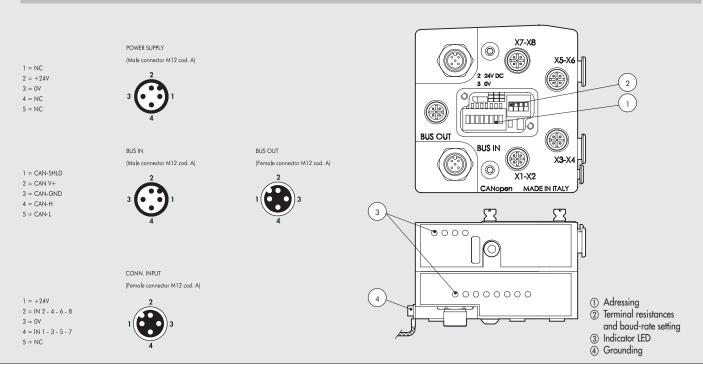


- Sixing from above using the 1 or 1-11 input terminal and the blind terminal.
- © Fixing from above using the 1 or 1-11 input terminal and the blind terminal, using the M5 threads on the bottom and the rear of the terminals.
 © Fixing from above using the 1 or 1-11 input terminal and the blind terminal, using the M5 threads on the front of the terminals.
- An opening for the pipes is made in the plate.
- (Fixing on the DIN bar with end-plate 1 or 1-11 and blind and plate , using the push-in bracket code 0227301600.
- E Lateral fixing using the blind terminal, and its the M4 threads on the side lateral. Note: The sole fixing admitted is the one showed.

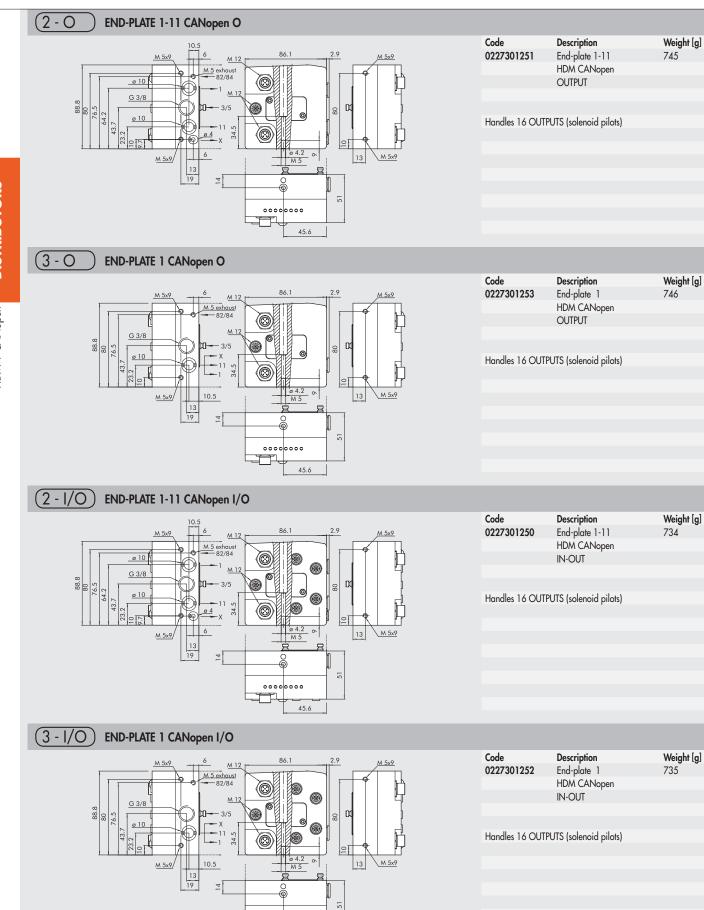
SYNOPTIC, SIZES AND VERSIONS

HDM	2	CAN O	м	16 - W 8 - W 6 - O 4 - L 8 - 5	16
VALVE	INPUT END-PLATE	ELECTRICAL BASE	MANUAL TYPE	TYPE OF VALVE	FURTHER DETAILS
Heavy duty Multimach IP65	2 End-plate 1-113 End-plate 1	CAN O CANopen 16 OUTPUT CAN I/O CANopen 8 INPUT e 16 OUTPUT	 M Monostable manual control B Bistable manual control 	I n° 2 3/2 NC W n° 2 3/2 NO L 3/2 NO + 3/2 NC V 5/2 monostable K 5/2 bistable O 5/3 monostable F 5/2 monostable F 5/2 monostable 4 right-end-plate 1-11 pipe Ø12 5 blind end-plate 6 Passing-intermede 7 Blind intermediate 20 Exhaust section 4 Cartridge 4 6 Cartridge 4 6 Cartridge 8 - 14 mm 85 Cartridge 8 - 23 mm	16 n° 2 brackets for DIN bar
* Uses a single PIN (i	like the V) and occupies 2 sign	nals.		10 Cartridge 10	





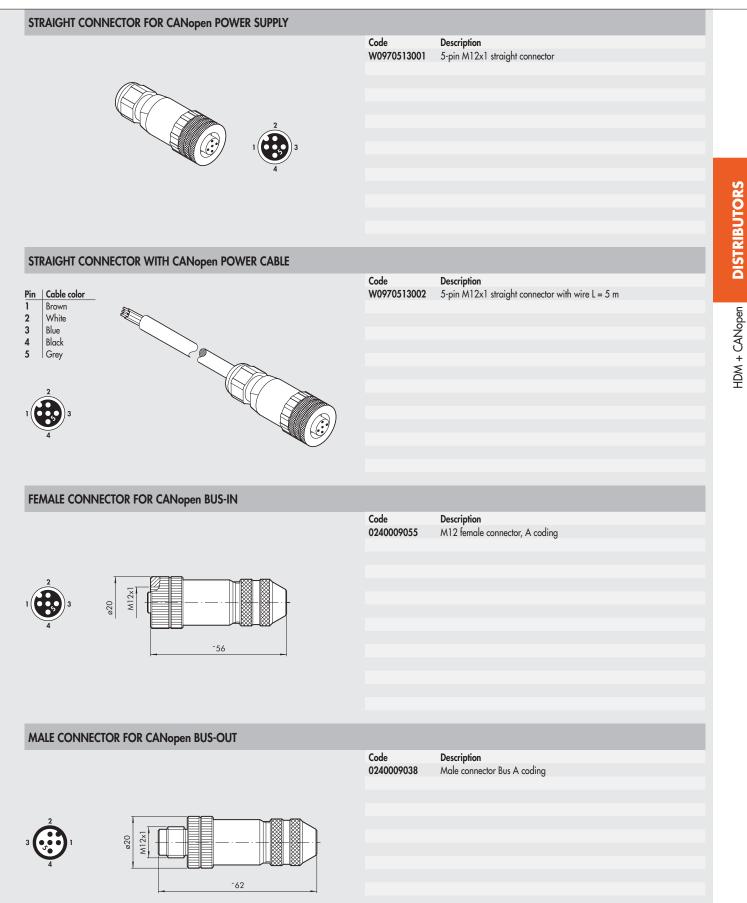


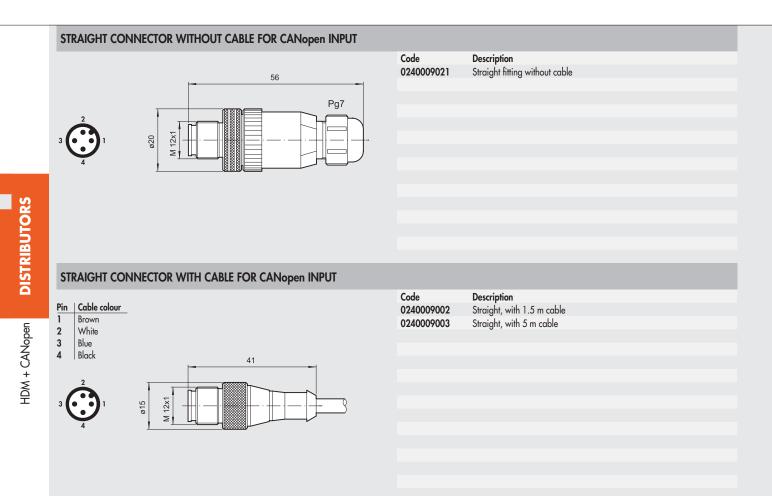


45.6

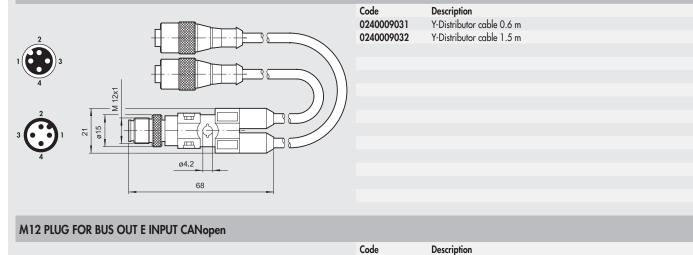
B2

ACCESSORIES





Y-DISTRIBUTOR WITH CABLE AND M12 STRAIGHT CONNECTORS FOR CANopen INPUT





 Code
 Description

 0240009040
 Plug M12

HDM + B&R

P N E U M A T I

An advanced field bus system interfacing with the Multimach world. B&R has developed a new standard for automation, called FORMULA X. For further details about features, functions and qualities of this system, reference must be made to the B&R documentation, also available on the web site www.br-automation.com

An overview is given below.

The X-system is a system handling analogue and digital inputs and outputs for local or remote use, which B&R defines as decentralised backplane. Different types of modules are available. We present those designed for connection with Multimach and HDM valve islands. We only indicate the B&R's code root, since each type of module comes in different variants, that differ by number of signals handled, that can be 8, 16 or 24, and by type of signal, that can be input, output or input/output indifferently. Common to all the modules is the presence of 4 connections: a signal input, a signal output for the following modules, a power input (24V DC), a power output for the following modules.

B&R CONNECTORS AND MODULES

IP20 7XV---50-11 SMART CONNECTOR

It is a plug connector with IP20 protection that contains the X system electronics. It can be connected with HDM islands, using the special input end-plate, type 1, code 0227301207 or the special input end-plate type 1-11, code 0227301206.

X67 1/O SYSTEM MODULES

These are modules with IP67 protection, connected to the X system, for handling inputs and outputs. It is interesting to note that their size is such that they can be fixed directly to the HDM input end-plate type 1-11, code 0227301206

(N.B. NOT to be fixed to the HDM end-plate type 1, code 0227301207).

IP67 7XV---50-51 SMART CONNECTOR

It is a plug connector with IP67 protection, that contains the X system electronics. It can be connected with HDM islands, using the special input end-plate type 1, code 0227301207, or the special input end-plate, type 1-11 code 0227301206.



PROFIBUS-DP DEVICE-NET CAN-OPEN ETHERNET

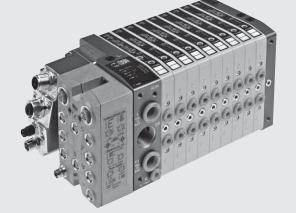
These are modules with protection IP67, receiving a signal according to one of the DP Profibus, CAN open, Device Net, Ethernet Powerlink protocols (the module code differs obviously according to the protocol being controlled). The output signal is according to the X-system. These are gateways converting the signals of a field bus into an X-system. These modules control the inputs and/or outputs via the M8 connectors provided. They can be fixed directly to the HDM input end-plate type 1-11, code 0227301206

(N.B. NOT to be fixed to the HDM end-plate, type 1, code 0227301207).

X2X







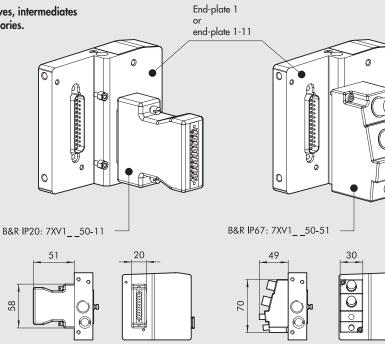




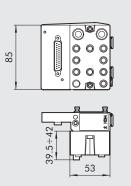
HDM + B&R

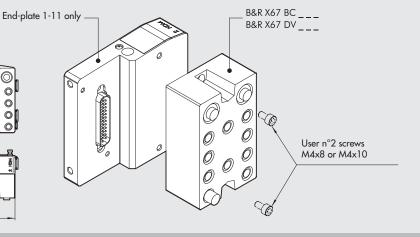
APPLICATIONS OF B&R MODULES TO HDM END-PLATES

Refer to page B2.112 for valves, intermediates elements and common accessories.



Refer to page B2.112 for valves, intermediates elements and common accessories.





SYNOPTIC, SIZES AND VERSIONS

	0				
HDM	2	B & R	M	l6 - W 8 - W 6 - O 4 - L 8 - 5	1 6
VALVE	INPUT END-PLATE	ELECTRICAL BASE	MANUAL TYPE	TYPE OF VALVE	FURTHER DETAILS
Heavy duty Multimach IP65	2 End-plate 1-113 End-plate 1	B&R Fit for B&R	 M Monostable manual control B Bistable manual control 	I n° 2 3/2 NC W n° 2 3/2 NO L 3/2 NO + 3/2 NC V 5/2 monostable K 5/2 bistable O 5/3 monostable F 5/2 monostable F 5/2 monostable F 5/2 monostable J Right-end-plate 1-11 pipe Ø12 S Blind end-plate A Passing-intermede Passing-intermede Blind intermediate 20 Exhaust section A Cartridge 4 6 Cartridge 4 6 Cartridge 8 - 14 mm 8 Cartridge 8 - 23 mm	16 n° 2 brackets for DIN bar
* Uses a single PIN (li	ike the V) and occupies 2 sig	anals.		10 Cartridge 10	

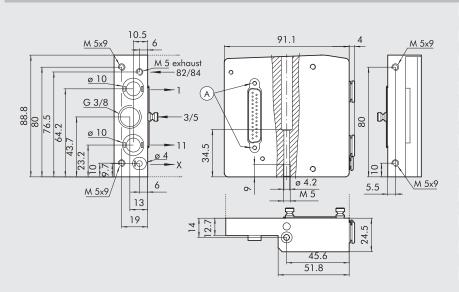


Description HDM 1-11 end-plate kit for B&R

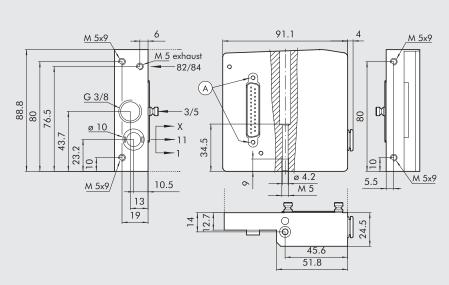
Code

0227301206

HDM 1-11 END-PLATE FOR B&R



HDM 1 END-PLATE FOR B&R



Code	Description	Weight [g]
0227301207	HDM 1 end-plate kit	380
	for B&R	

NOTES

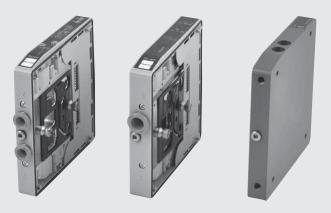
Weight [g]

340

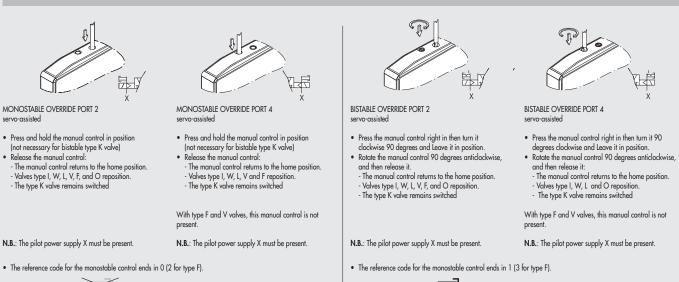
IDIII - VALVES, INTERMEDIATES ELEMENTS ND ACCESSORIES

HDM valve can be included in islands with any available input terminal. The same valve can be connected to the multiple connection end-plate and all the field bus end-plates.

Note: if you use valves 8S type or 10 exploiting their flow capacity, it is appropriate to choose the inlet end plate 1-11 type by feeding the pilots separately (to avoid the pressure to decrease too much on the pilots). If you use simultaneously more than one valve 8S or 10 it is necessary to potentiate the pneumatic feeding by inserting end plates having 12 mm pipe and/or through intermediate modules



MANUAL CONTROLS

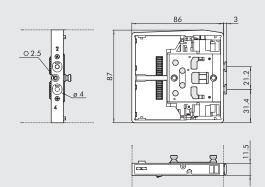


Example: 707203053 _

Example: 707203053 -

(1) VALVE DIMENSIONS HDM $\emptyset 4$

*uses a single PIN (like the V) and occupies 2 signals



Symbol		Code	Manual control	Weight [g]
HDM	82/84 2 4	7071030530	monostable	130
4		7071030531	bistable	
HDM	82/84	7071030630	monostable	130
W4	$\begin{array}{c c} 12 & [2]_{T} & [1]_{T} & [1$	7071030631	bistable	
HDM	82/84	7071030730	monostable	130
L4		7071030731	bistable	
HDM	82/84 2 4	7071030130	monostable	115
V4	14 [2]] [] [] [] [] [] [] [] [] [] [] [] []	7071030131	bistable	
HDM	82/84 2 4	7071030132	monostable	115
*F4	14 [2] 14 [2] 14 [2] 14 [2] 14 [2] 14 [2] 14 [2] 14 [2] 14 [2] 14 [2] 14 [2] 14 [2] 14 [2] 14 [2] 14 [2] 14 [2] 14 [2] 14 [2] 14 [2] 14 [2] 14 [2] 14 [2] 14 [2] 14 [2] 14 [2] 14 [2] 14 [2] 14 [2] 14 [2] 14 [2] 14 [2] 14 [2] 14 [2] 14 [2] 14 [2] 14 [2] 14 [2] 14 [2] 14 [2] 14 [2] 14 [2] 14 [2] 14 [2] 14 [2] 14 [2] 14 [2] 14 [2] 14 [2] 14 [2] 14 [2] 14 [2] 14 [2] 14 [2] 14 [2] 14 [2] 14 [2] 14 [2] 14 [2] 14 [2] 14 [2] 14 [2] 14 [2] 14 [2] 14 [2] 14 [2] 14 [2] 14 [2] 14 [2] 14 [2] 14 [2] 14 [2] 14 [2] 14 [2] 14 [2] 14 [2] 14 [2] 14 [2] 14 [2] 14 [2] 14 [2] 14 [2] 14 [2] 14 [2] 14 [2] 14 [2] 14 [2] 14 [2] 14 [2] 14 [2] 14 [2] 14 [2] 14 [2] 14 [2] 14 [2] 14 [2] 14 [2] 14 [2] 14 [2] 14 [2] 14 [2] 14 [2] 14 [2] 14 [2] 14 [2] 14 [2] 14 [2] 14 [2] 14 [2] 14 [2] 14 [2] 14 [2] 14 [2] 14 [2] 14 [2] 14 [2] 14 [2] 14 [2] 14 [2] 14 [2] 14 [2] 14 [2] 14 [2] 14 [2] 14 [2] 14 [2] 14 [2] 14 [2] 14 [2] 14 [2] 14 [2] 14 [2] 14 [2] 14 [2] 14 [2] 14 [2] 14 [2] 14 [2] 14 [2] 14 [2] 14 [2] 14 [2] 14 [2] 14 [2] 14 [2] 14 [2] 14 [2] 14 [2] 14 [2] 14 [2] 14 [2] 14 [2] 14 [2] 14 [2] 14 [2] 14 [2] 14 [2] 14 [2] 14 [2] 14 [2] 14 [2] 14 [2] 14 [2] 14 [2] 14 [2] 14 [2] 14 [2] 14 [2] 14 [2] 14 [2] 14 [2] 14 [2] 14 [2] 14 [2] 14 [2] 14 [2] 14 [2] 14 [2] 14 [2] 14 [2] 14 [2] 14 [2] 14 [2] 14 [2] 14 [2] 14 [2] 14 [2] 14 [2] 14 [2] 14 [2] 14 [2] 14 [2] 14 [2] 14 [2] 14 [2] 14 [2] 14 [2] 14 [2] 14 [2] 14 [2] 14 [2] 14 [2] 14 [2] 14 [2] 14 [2] 14 [2] 14 [2] 14 [2] 14 [2] 14 [2] 14 [2] 14 [2] 14 [2] 14 [2] 14 [2] 14 [2] 14 [2] 14 [2] 14 [2] 14 [2] 14 [2] 14 [2] 14 [2] 14 [2] 14 [2] 14 [2] 14 [2] 14 [2] 14 [2] 14 [2] 14 [2] 14 [2] 14 [2] 14 [2] 14 [2] 14 [2] 14 [2] 14 [2] 14 [2] 14 [2] 14 [2] 14 [2] 14 [2] 14 [2] 14 [2] 14 [2] 14 [2] 14 [2] 14 [2] 14 [2] 14 [2] 14 [2] 14 [2] 14 [2] 14 [2] 14 [2] 14 [2] 14 [2] 14 [2] 14 [2] 14 [2] 14 [2] 14 [2] 14 [2] 14 [2] 14 [2] 14 [2] 14 [2] 14 [2] 14 [2] 14 [2] 14 [2] 14 [2] 14 [2] 14 [2] 14 [2] 14 [2] 14 [2] 14 [2] 14 [2] 14 [2] 14 [2] 14 [2] 14 [2] 14 [2] 14 [2] 14 [2] 14 [2] 14 [2] 14 [2] 14 [2] 14 [2] 14 [2] 14	7071030133	bistable	
HDM	82/84 2 4	7071030110	monostable	130
K4		7071030111	bistable	
HDM	82/84 2 4	7071030210	monostable	130
O 4		7071030211	bistable	

Weight [g]

130

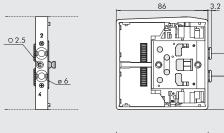


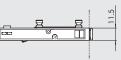
Manual control

monostable

(1) VALVE DIMENSIONS HDM Ø6

 * uses a single PIN (like the V) and occupies 2 signals



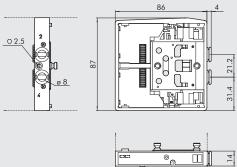


21.2

31.4

(1) VALVE DIMENSIONS HDM Ø8

*uses a single PIN (like the V) and occupies 2 signals



16		7072030531	bistable	
10	x 1 3/5 1 11			
HDM	82/84	7072030630	monostable	130
W6		7072030631	bistable	
VVO	x			
HDM	82/84	7072030730	monostable	130
14		7072030731	bistable	
L6	x+			
HDM	82/84 2 4	7072030130	monostable	115
VZ	14 ◘	7072030131	bistable	
V6	xi 1 ^J 3/5 L11			
HDM	82/84 2 4	7072030132	monostable	115
*EZ	14 🖾 🕂	7072030133	bistable	
*F6	x 1 3/5 L11			
HDM	82/84 2 4	7072030110	monostable	130
V.	14 0 12	7072030111	bistable	
K6	x 1 3/5 L 11			
HDM	82/84 2 4	7072030210	monostable	130
04		7072030211	bistable	
06	x 1 3/5 1 1			

Code

7072030530

7072030531

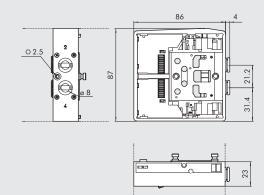
Symbol

HDM

Symbol		Code	Manual control	Weight [g]
HDM	82/84 2 4	7073030530	monostable	140
18		7073030531	bistable	
HDM	82/84 2 4	7073030630	monostable	140
W8		7073030631	bistable	
HDM	82/84	7073030730	monostable	140
L8		7073030731	bistable	
HDM	82/84 2 4	7073030130	monostable	130
V8	14 [2] 14 [2] 14 [2] 14 [2] 14 [2] 14 [2] 14 [2] 14 [2] 14 [2] 14 [2] 14 [2] 14 [2] 14 [2] 14 [2] 14 [2] 14 [2] 14 [2] 14 [2] 14 [2] 14 [2] 14 [2] 14 [2] 14 [2] 14 [2] 14 [2] 14 [2] 14 [2] 14 [2] 14 [2] 14 [2] 14 [2] 14 [2] 14 [2] 14 [2] 14 [2] 14 [2] 14 [2] 14 [2] 14 [2] 14 [2] 14 [2] 14 [2] 14 [2] 14 [2] 14 [2] 14 [2] 14 [2] 14 [2] 14 [2] 14 [2] 14 [2] 14 [2] 14 [2] 14 [2] 14 [2] 14 [2] 14 [2] 14 [2] 14 [2] 14 [2] 14 [2] 14 [2] 14 [2] 14 [2] 14 [2] 14 [2] 14 [2] 14 [2] 14 [2] 14 [2] 14 [2] 14 [2] 14 [2] 14 [2] 14 [2] 14 [2] 14 [2] 14 [2] 14 [2] 14 [2] 14 [2] 14 [2] 14 [2] 14 [2] 14 [2] 14 [2] 14 [2] 14 [2] 14 [2] 14 [2] 14 [2] 14 [2] 14 [2] 14 [2] 14 [2] 14 [2] 14 [2] 14 [2] 14 [2] 14 [2] 14 [2] 14 [2] 14 [2] 14 [2] 14 [2] 14 [2] 14 [2] 14 [2] 14 [2] 14 [2] 14 [2] 14 [2] 14 [2] 14 [2] 14 [2] 14 [2] 14 [2] 14 [2] 14 [2] 14 [2] 14 [2] 14 [2] 14 [2] 14 [2] 14 [2] 14 [2] 14 [2] 14 [2] 14 [2] 14 [2] 14 [2] 14 [2] 14 [2] 14 [2] 14 [2] 14 [2] 14 [2] 14 [2] 14 [2] 14 [2] 14 [2] 14 [2] 14 [2] 14 [2] 14 [2] 14 [2] 14 [2] 14 [2] 14 [2] 14 [2] 14 [2] 14 [2] 14 [2] 14 [2] 14 [2] 14 [2] 14 [2] 14 [2] 14 [2] 14 [2] 14 [2] 14 [2] 14 [2] 14 [2] 14 [2] 14 [2] 14 [2] 14 [2] 14 [2] 14 [2] 14 [2] 14 [2] 14 [2] 14 [2] 14 [2] 14 [2] 14 [2] 14 [2] 14 [2] 14 [2] 14 [2] 14 [2] 14 [2] 14 [2] 14 [2] 14 [2] 14 [2] 14 [2] 14 [2] 14 [2] 14 [2] 14 [2] 14 [2] 14 [2] 14 [2] 14 [2] 14 [2] 14 [2] 14 [2] 14 [2] 14 [2] 14 [2] 14 [2] 14 [2] 14 [2] 14 [2] 14 [2] 14 [2] 14 [2] 14 [2] 14 [2] 14 [2] 14 [2] 14 [2] 14 [2] 14 [2] 14 [2] 14 [2] 14 [2] 14 [2] 14 [2] 14 [2] 14 [2] 14 [2] 14 [2] 14 [2] 14 [2] 14 [2] 14 [2] 14 [2] 14 [2] 14 [2] 14 [2] 14 [2] 14 [2] 14 [2] 14 [2] 14 [2] 14 [2] 14 [2] 14 [2] 14 [2] 14 [2] 14 [2] 14 [2] 14 [2] 14 [2] 14 [2] 14 [2] 14 [2] 14 [2] 14 [2] 14 [2] 14 [2] 14 [2] 14 [2] 14 [2] 14 [2] 14 [2] 14 [2] 14 [2] 14 [2] 14 [2] 14 [2] 14 [2] 14 [2] 14 [2] 14 [2] 14 [2] 14 [2] 14 [2] 14 [2] 14 [2] 14 [2] 14 [2] 14 [2] 14 [2] 14 [2] 14 [2] 14 [2] 14 [2] 14 [2] 14 [2] 14 [2] 14 [2] 14 [2] 14 [2] 14 [2] 14 [2] 14 [2] 14 [2] 14 [2] 14	7073030131	bistable	
HDM	82/84 2 4	7073030132	monostable	130
*F8	14 [2]]]] / [V x i 1 3/5 - 11	7073030133	bistable	
HDM	82/84 2 4	7073030110	monostable	140
K8		7073030111	bistable	
ГО	x 1- 3/5 L 11			
HDM	82/84 2 4 W	7073030210	monostable	140
00		7073030211	bistable	
00	x 7 1- 3/5 1- 1			

(1) VALVE DIMENSIONS HDM Ø 85

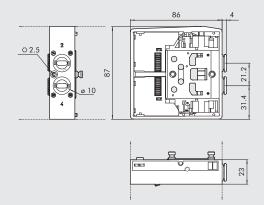
*uses a single PIN (like the V) and occupies 2 signals



Symbol		Code	Manual control	Weight [g]
HDM	82/84	7077030530	monostable	260
I8S		7077030531	bistable	
HDM	82/84 2 4	7077030630	monostable	260
W8S		7077030631	bistable	
HDM	82/84 2 4	7077030730	monostable	260
L8S		7077030731	bistable	
HDM	82/84 2 4	7077030130	monostable	241
V8S	14 [⊈‡]V x i3/5 ↓ 11	7077030131	bistable	
HDM	82/84 2 4	7077030132	monostable	241
*F8S	14 [24] <u>}</u> x i 1 3/5 - 11	7077030133	bistable	
HDM	82/84 2 4	7077030110	monostable	253
K8S	14 [⊅] 12 x + 1 = 3/5 = 11	7077030111	bistable	
HDM	82/84 2 4	7077030210	monostable	262
085		7077030211	bistable	

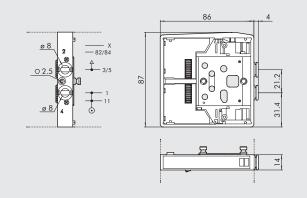
1 VALVE DIMENSIONS HDM Ø 10

*uses a single PIN (like the V) and occupies 2 signals



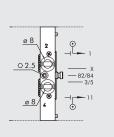
Symbol		Code	Manual control	Weight [g]
HDM	82/84 2 4	7078030530	monostable	250
110		7078030531	bistable	
HDM	82/84 2 4	7078030630	monostable	250
W10		7078030631	bistable	
HDM	82/84 2 4	7078030730	monostable	250
L10		7078030731	bistable	
HDM	82/84 2 4	7078030130	monostable	231
V10	14 [24] 14 [24] 14 [24] 14 [24] 14 [24] 14 [24] 14 [24] 14 [24] 14 [24] 14 [24] 14 [24] 14 [24] 14 [24] 14 [24] 14 [24] 14 [24] 14 [24] 14 [24] 14 [24] 14 [24] 14 [24] 14 [24] 14 [24] 14 [24] 14 [24] 14 [24] 14 [24] 14 [24] 14 [24] 14 [24] 14 [24] 14 [24] 14 [24] 14 [24] 14 [24] 14 [24] 14 [24] 14 [24] 14 [24] 14 [24] 14 [24] 14 [24] 14 [24] 14 [24] 14 [24] 14 [24] 14 [24] 14 [24] 14 [24] 14 [24] 14 [24] 14 [24] 14 [24] 14 [24] 14 [24] 14 [24] 14 [24] 14 [24] 14 [24] 14 [24] 14 [24] 14 [24] 14 [24] 14 [24] 14 [24] 14 [24] 14 [24] 14 [24] 14 [24] 14 [24] 14 [24] 14 [24] 14 [24] 14 [24] 14 [24] 14 [24] 14 [24] 14 [24] 14 [24] 14 [24] 14 [24] 14 [24] 14 [24] 14 [24] 14 [24] 14 [24] 14 [24] 14 [24] 14 [24] 14 [24] 14 [24] 14 [24] 14 [24] 14 [24] 14 [24] 14 [24] 14 [24] 14 [24] 14 [24] 14 [24] 14 [24] 14 [24] 14 [24] 14 [24] 14 [24] 14 [24] 14 [24] 14 [24] 14 [24] 14 [24] 14 [24] 14 [24] 14 [24] 14 [24] 14 [24] 14 [24] 14 [24] 14 [24] 14 [24] 14 [24] 14 [24] 14 [24] 14 [24] 14 [24] 14 [24] 14 [24] 14 [24] 14 [24] 14 [24] 14 [24] 14 [24] 14 [24] 14 [24] 14 [24] 14 [24] 14 [24] 14 [24] 14 [24] 14 [24] 14 [24] 14 [24] 14 [24] 14 [24] 14 [24] 14 [24] 14 [24] 14 [24] 14 [24] 14 [24] 14 [24] 14 [24] 14 [24] 14 [24] 14 [24] 14 [24] 14 [24] 14 [24] 14 [24] 14 [24] 14 [24] 14 [24] 14 [24] 14 [24] 14 [24] 14 [24] 14 [24] 14 [24] 14 [24] 14 [24] 14 [24] 14 [24] 14 [24] 14 [24] 14 [24] 14 [24] 14 [24] 14 [24] 14 [24] 14 [24] 14 [24] 14 [24] 14 [24] 14 [24] 14 [24] 14 [24] 14 [24] 14 [24] 14 [24] 14 [24] 14 [24] 14 [24] 14 [24] 14 [24] 14 [24] 14 [24] 14 [24] 14 [24] 14 [24] 14 [24] 14 [24] 14 [24] 14 [24] 14 [24] 14 [24] 14 [24] 14 [24] 14 [24] 14 [24] 14 [24] 14 [24] 14 [24] 14 [24] 14 [24] 14 [24] 14 [24] 14 [24] 14 [24] 14 [24] 14 [24] 14 [24] 14 [24] 14 [24] 14 [24] 14 [24] 14 [24] 14 [24] 14 [24] 14 [24] 14 [24] 14 [24] 14 [24] 14 [24] 14 [24] 14 [24] 14 [24] 14 [24] 14 [24] 14 [24] 14 [24] 14 [24] 14 [24] 14 [24] 14 [24] 14 [24] 14 [24] 14 [24] 14 [24] 14 [24] 14 [24] 14 [24] 14 [24] 14 [24] 14 [24] 14 [24] 14 [24] 14 [24	7078030131	bistable	
HDM	82/84 2 4	7078030132	monostable	231
*F10	14 [⊅] }] / ↓ x ↓ 1 → 3/5 ↓ 11	7078030133	bistable	
HDM	82/84 2 4	7078030110	monostable	243
K10	14 [4] 14 [4] 12 x + 1 - 3/5 - 11	7078030111	bistable	
HDM	82/84 2 4	7078030210	monostable	252
010		7078030211	bistable	

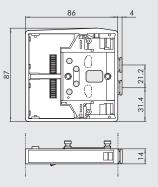
6 INTERMEDIATE THROUGH



Code	Description Intermediate through HDM	Weight [g]
0227301301	Intermediate through HDM	120

7 INTERMEDIATE BLIND





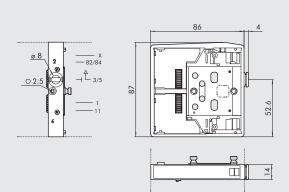
Code	Description Intermediate blind HDM	Weight [g]
0227301302	Intermediate blind HDM	117

DISTRIBUTORS

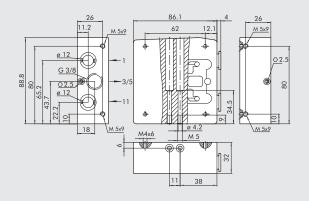
HDM - VALVES, INTERMEDIATES ELEMENTS AND ACCESSORIES



(20) INTERMEDIATE EXHAUST SWITCH



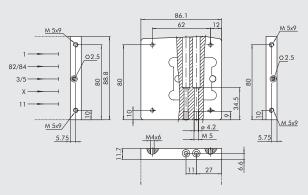
(4) RIGHT-END-PLATE 1-11 PIPE Ø 12





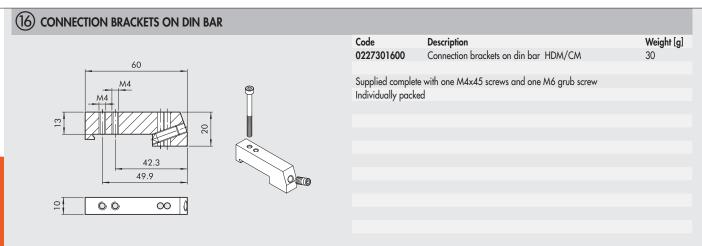
Code Weight [g] Description 0227301221 Rigth-end-plate HDM 1-11 Ø 12 630 This end-plate allows for supplies to be differentiated: • Port 2 • Port 4

(5) BLIND END-PLATE

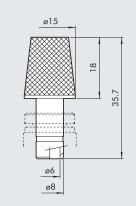


Code	Description Blind end-plate HDM	Weight [g]
0227301500	Blind end-plate HDM	230

ACCESSORIES



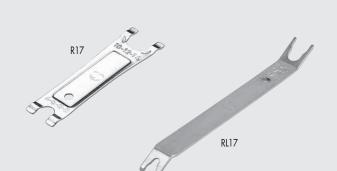
SILENCER FOR FITTING, Ø 8



Code	Description	Weight [g]
W0970530084	Silencer for fitting, Ø 8	15

At the 3/5-exhaust port of the intermediate through reference 6 and of the exhaust switch reference 20

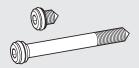
R17 - PIPE RELEASE SPANNER



Code	•	Rif.	Length [mm]	Ø Tube
2L17	001	RL17	140	from 3 to 10
2017	/001	R17	95	from 4 to 14

SPARES

GRUB SCREW KIT



 Code
 Description

 0227301800
 Grub screw for Multimach HDM/CM

Comes in 1 + 1 pc. packs