MULTIMACH

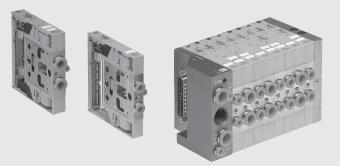
Ν Е U Μ Α

Multimach is not a mere valve, it is an electropneumatic distribution "island" - a single block ready for connection to power and air delivery pipes and a multi-pin cable.

All the pneumatic connections are situated on one side with built-in push-in fittings. The user interface is on the other side so that the fitter or serviceman has everything within an easy reach: manual controls, active valve signalling lights, compressed air system diagram, valve identification plates. The user can count on four different orientations for the electric connector.

Multimach provides full flexibility in the application of valves: 1 to 24 valves, power plates and drain for pipes of various sizes, electric 9- or 25-pin plug connector. But the real novelty, is the possibility of mounting valves of different flow rates: three different valves can be mounted at a time and a valve can be replaced with another of a different flow rate. This revolutionary concept enables the user to optimise space and costs and adapt the unit to different performance requirements.

The ratio between the flow rate of the Multimach system and sizes is incomparable: the top in terms of miniaturisation and efficiency.



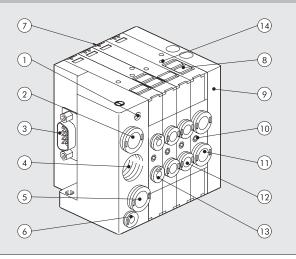
Valve port connections Ø 4,6,8 mm automatic fitting for ports 2 and 4 / power supply port for Ø8 or Ø10 automatic fitting / Gonnection on the end-plate for the supply of pilots 3/8 thread for exhaust port, MS thread for exhaust pilot port Connection on the end-plate for the supply of pilots G Operating temperature range °C Fluid Filtered air without lubrication; lubrication, if used, must be continuous Screw for valve - wall-mounting Kcording to the end-plate used: see page B2.148 11 mm Ø 4: 200 11 mm Ø 6: 500 14 mm Ø 8: 700 Power W Filtered air without lubrication; lubrication, if used, must be continuous Kcording to the end-plate used: see page B2.148 11 mm Ø 4: 200 11 mm Ø 6: 500 14 mm Ø 8: 700 Power W Filtered air without lubrication; lubrication, if used, must be continuous Kcording to the end-plate used: see page B2.148 11 mm Ø 4: 200 11 mm Ø 6: 500 14 mm Ø 8: 700 Power W Filtered air without lubrication; lubrication, if used, must be continuous Kcording to the end-plate used: see page B2.148 11 mm Ø 4: 200 11 mm Ø 6: 500 14 mm Ø 6: 500							
Connection on the end-plate for the supply of pilots Automatic fitting Ø 4 Operating temperature range °C Fluid -10 to +60 Screw for valve - wall-mounting According to the end-plate used: see page B2 .148 11 mm Ø 4: 200 11 mm Ø 6: 500 14 mm Ø 8: 700 Flow rate at 6 bar ΔP 1bar Nl/min 24 VDC ±10% 14 mm Ø 8: 700 Voltage range V F155 14 mm Ø 8: 700 Power W F155 100% ED Solenoid rating X (pilot supply) 1-11 (valve supply) Poster range 3 to 7 max vacuum at 10 bar Terminal 1-11 bar 3 to 7 vacuum at 10 bar TRA/TRR 2/2 monostable at 6 bar ms 8 / 45 14 mm Ø 8/ 33 TRA/TRR 5/2 bistable at 6 bar ms 18 / 33 14 mm Ø 8/ 30 14 mm Ø 8/ 30 TRA/TRR 5/3 cc monostable at 6 bar ms 16 / 10% 16 / 10% 16 / 10% TRA/TRR 5/3 cc monostable at 6 bar ms 16 / 10% 16 / 10% 16 / 10% 16 / 10% TRA/TRR 5/3 cc monostable at 6 bar ms 16 / 10% 16 / 10% 16 / 10% 16 / 10% 16 / 10% 16 / 10% <td>Valve port connections</td> <td></td> <td colspan="3">Ø 4,6,8 mm automatic fitting for ports 2 and 4 / power supply port for Ø8 or Ø10 automatic fitting /</td>	Valve port connections		Ø 4,6,8 mm automatic fitting for ports 2 and 4 / power supply port for Ø8 or Ø10 automatic fitting /				
Operating temperature range °C Fluid Filtered air without lubrication; lubrication, if used, must be continuous Screw for valve - wall-mounting According to the end-plate used: see page B2.148 11 mm Ø 4; 200 11 mm Ø 6; 500 14 mm Ø 8; 700 Flow rate at 6 bar ΔP lbar Nl/min 24 VDC ±10% 24 VDC ±10% Voltage range 1.2 2 Power W F155 14 mm Ø 8; 700 Degree of protection 1.2 2 Solenoid rating Ip51 2 Pressure range X (pilot supply) 1-11 (valve supply) Pressure range X (pilot supply) 1-11 (valve supply) TRA/TRR 2x3/2 monostable at 6 bar ms 3 to 7 TRA/TRR 5/2 monostable at 6 bar ms 20 / 20 TRA/TRR 5/2 monostable at 6 bar ms 20 / 20 TRA/TRR 5/3 cc monostable at 6 bar ms 10sert point p			3/8 thread for exhaust port, M5 thread for exhaust pilot port				
Fluid Filtered air without lubrication, if used, must be continuous Screw for valve - wall-mounting Filtered air without lubrication, if used, must be continuous Flow rate at 6 bar ΔP 1bar Nl/min Voltage range 24 VDC ± 10% Power W Insulation class 1.2 Degree of protection V Solenoid rating Y (pilot supply) Pressure range X (pilot supply) Terminal 1-11 bar Terminal 1 bar TRA/TRR 2x3/2 monostable at 6 bar ms TRA/TRR 5/2 bistable at 6 bar ms NtRA TRR 5/3 cc monostable at 6 bar ms Note on use 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.	Connection on the end-plate for the supply of	of pilots	Automatic fitting Ø	54			
Screw for valve - wall-mounting According to the end-plate used: see page B2.148 11 nm Ø 4: 200 11 nm Ø 6: 500 14 nm Ø 8: 700 Flow rate at 6 bar ΔP 1bar Nl/min Voltage range 1.2 Power W Insulation class IP51 Degree of protection 10% ED Solenoid rating X (pilot supply) 1-11 (valve supply) Pressure range 3 to 7 max vacuum at 10 bar Terminal 1-11 bar 3 to 7 Terminal 1 reduced bar 8 / 45 TRA/TRR 2x3/2 monostable at 6 bar ms TRA/TRR 5/2 bistable at 6 bar ms Note on use 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.	Operating temperature range	°C	-10 to +60				
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Power W F155 Insulation class IP51 Degree of protection 100% ED Solenoid rating X (pilot supply) Pressure range 3 to 7 max Terminal 1-11 bar Terminal 1 bar Terminal 1 reduced bar TRA/TRR 2x3/2 monostable at 6 bar ms TRA/TRR 5/2 monostable at 6 bar ms TRA/TRR 5/2 bistable at 6 bar ms TRA/TRR 5/2 comonostable at 6 bar ms Note on use 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. See chapter Z1	Flow rate at 6 bar ΔP 1bar	Nl/min	24 VDC ±10%				
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Terminal 1 bar Terminal 1 reduced bar TRA/TRR 2x3/2 monostable at 6 bar ms TRA/TRR 5/2 monostable at 6 bar ms TRA/TRR 5/2 monostable at 6 bar ms TRA/TRR 5/2 bistable at 6 bar ms TRA/TRR 5/3 cc monostable at 6 bar ms 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. See chapter Z1	0		3 to 7 max	vacuum at 10 bar			
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TRA/TRR 5/3 cc monostable at 6 bar ms 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. See chapter Z1		ms	•				
Note on use otherwise the basket may be pulled out of its seat by the flow of air. See chapter Z1		ms					
See chapter Z1							
	Note on use		, , , ,				
Compatibility with oils			See chapter Z1				
	Compatibility with oils						

COMPONENTS

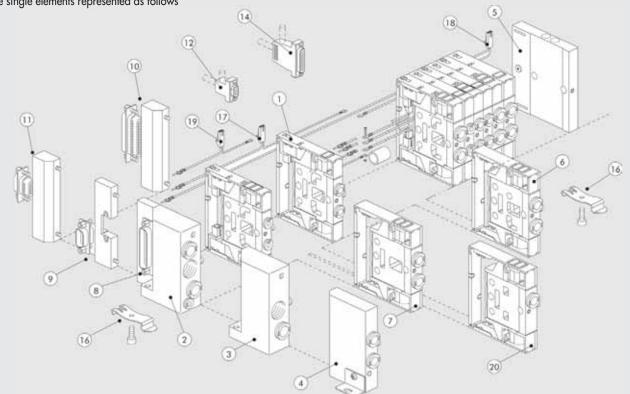
TECHNICAL DATA

- 1) Exhaust Solenoid pilot
- 2 Valve supply port 1
 3 Electrical multiple connection with 9 or 25 pins
- (4) Threaded connection of exhausts 3/5

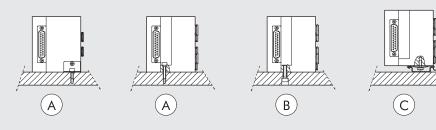
- (5) Valve supply
 (6) Electrical control supply
 (7) LED (LED on, solenoid valve energised)
- 8 Removable identification labels
- Ø Blind end-plate
- (1) Screw for valve wall-mounting
- Utility port for pipe Ø 8 mm
 Utility port for pipe Ø 6 mm
 Utility port for pipe Ø 4 mm
- (14) Manual control



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



FIXING THE BASE



- (a) Fixing with reduced end-plate 1, CODE 0227300300, supplied complete with bracket
 (b) Fixing with end-plate 1-11 CODE 0227300200 or with end-plate CODE 0227300201
 (c) Fixing with end-plate 1-11 CODE 0227300200 or with end-plate 1 CODE 0227300201 using the M4-thread found on the M5 end-plate
 (c) Fixing on the DIN bar with end-plate 1-11 CODE 0227300 using the reduced end-plate 1 CODE 0227300300 or end-plate CODE 0227300201 using the push-in bracket CODE 0227300600.
 (c) If you have to remove the base from the bar, this is rapid and can be performed without using any tools.

SYNOPTIC, SIZES AND VERSIONS

M 5 1	2	8	16 - W 8 - W 6 - O 4 - L 8 - 5	14
VALVE	INPUT END-PLATE	ELECTRICAL BASE	TYPE OF VALVE	FURTHER DETAILS
Multimach IP51	 2 End-plate 1-11 3 End-plate 1 4 Reduced End-plate 1 	 8 Axial 25-wire connector base 9 Axial 9-wire connector base 10 25-wire rear connector base 11 9-wire rear connector base 	 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 5 Blind end-plate 6 Passing-intermede 7 Blind intermediate 20 Exhaust section 4 Cartridge 4 6 Cartridge 6 8 Cartridge 8 	12 9-wire connector14 25-wire connector16 Brackets for DIN bar

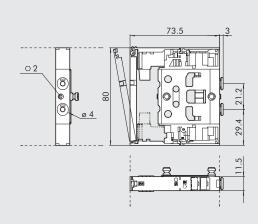
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UMA

(1) VALVE DIMENSIONS Ø 4

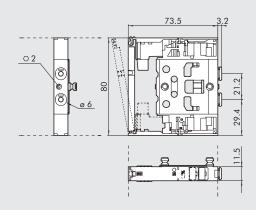


Symbol		Code	Manual control	Weight [g]
14		7068030532	monostable	118
	x +13/5 + - J 11 82/84⊥ 2 4			110
W4		7068030632	monostable	118
	x+			
		7068030732	monostable	118
L4				
	82/84 2 4	7068030132	monostable	100
V4				
	x 1 3/5 11			
17.4		7068030112	monostable	114
K4	14 0AL 11 (A 10 12 x 1 1 3/5 L 11			
	82/84 2 4	7068030212	monostable	115
04				

NE

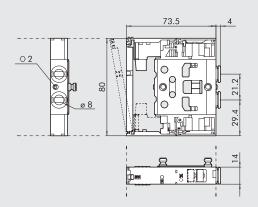
Ρ

(1) VALVE DIMENSIONS Ø 6

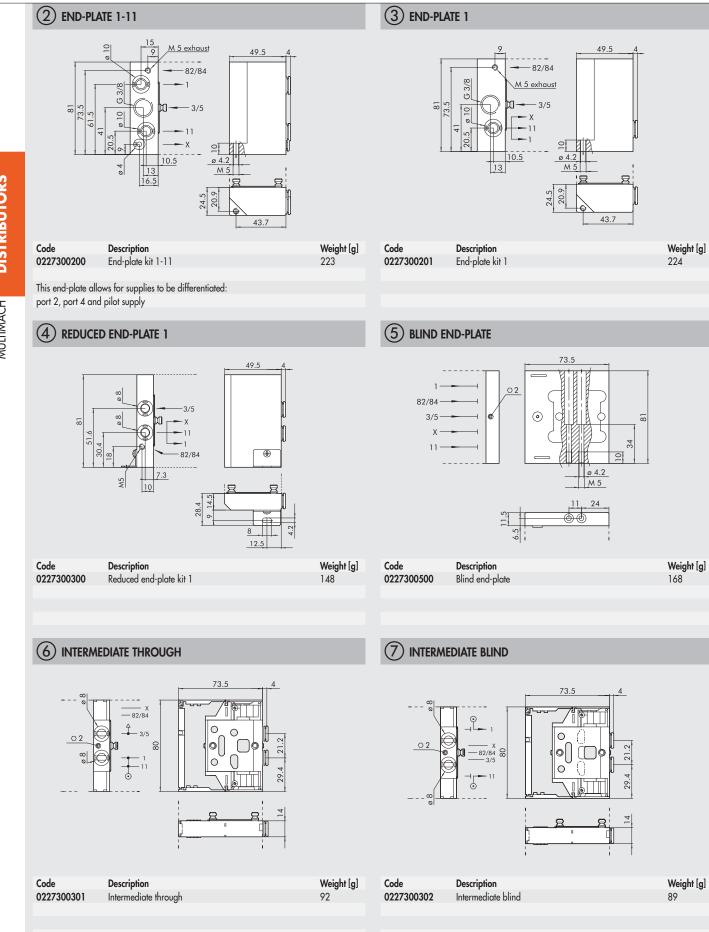


Symbol		Code	Manual control	Weight [g]
	82/84	7069030532	monostable	110
16				
	x++			
		7069030632	monostable	110
W6				
	x			
		7069030732	monostable	110
L6				
	x+			
	82/84 2 4	7069030132	monostable	90
V6	14 🖾 🕂 📊 🖊			
	x 1 3/5 11			
	82/84 2 4	7069030112	monostable	107
K6	14 4 12			
	x+-F			
06	82/84 2 4	7069030212	monostable	108
	X 1 3/5 11			

(1) VALVE DIMENSIONS Ø 8

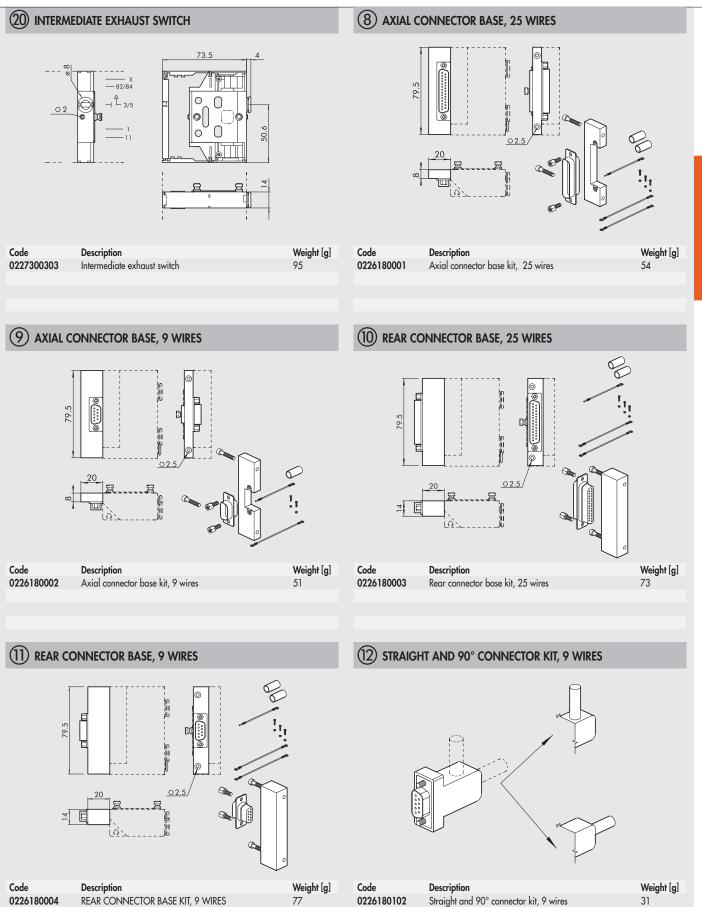


Symbol		Code	Manual control	Weight [g]
18	$\begin{array}{c c} 82/84 & 2 & 4 \\ 12 & & & & \\ x^{+} & - & - & - & - & - & - & - & - & - & $	7070030532	monostable	124
W8		7070030632	monostable	124
L8		7070030732	monostable	124
V8	82/84 2 4 14 2 4 x 1 3/5 11	7070030132	monostable	105
K8	82/84 2 4 14 2 12 x 1 - 3/5 11	7070030112	monostable	120
08	82/84 14 10 11 11 12 x 1	7070030212	monostable	121



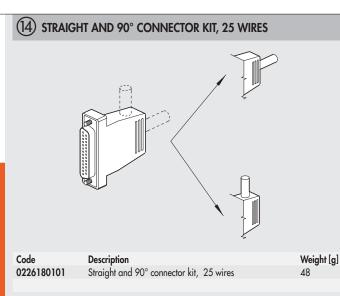
B2





DISTRIBUTORS

MULTIMACH



(17) (18) (19) CONNECTOR KIT + WIRE

· Etal

Description

Connector kit + wire 1-6*

Connector kit + wire 7-12**

Connector kit + wire13-30***

For valve connection from 1st to 6th position counting from the connector

** For valve connection from 7th to 12th position, counting from the connector *** For valve connection from 13th to 30th position, counting from the connector

Code

*

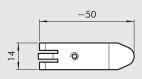
0226180399

0226180400

0226180401

CABLES

(16) CONNECTION BRACKETS ON THE BAR OMEGA (DIN EN 50022)

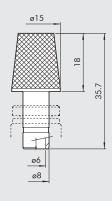




Code	Description	Weight [g]
0227300600	Connection brackets on din bar	8

Individually packed

SILENCER FOR FITTING, Ø 8



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

At the 3/5-exhaust port of the reduced end-plate 1 ref. 4 and of the intermediate through of the exhaust switch ref. 20

NOTES

Weight [g]

3

4

5

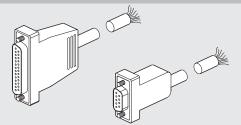


C BB

Cod.	Description	Weight [g]
0226107201	10-wire cable	86
0226107101	19-wire cable	122
0226107102	25-wire cable	130
Specify the number	er of metres desired	



STRAIGHT PRE-WIRED CONNECTOR KIT



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X

PRE-WIRED 90° CONNECTOR

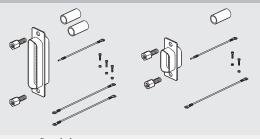
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Code	Description	Weight [g]	Code	Description	Weight [g]
0226900100	Connector + 9-wire axial cable L = 1 m	90	0226910100	Connector + 9-wire 90° cable L = 1 m	90
0226900250	Connector + 9-wire axial cable L = 2.5 m	220	0226910250	Connector + 9-wire 90° cable L = 2.5 m	220
0226900500	Connector + 9-wire axial cable L = 5 m	434	0226910500	Connector + 9-wire 90° cable L = 5 m	434
0226920100	Connector + 25-wire axial cable L = 1 m	132	0226930100	Connector + 25-wire 90° cable L = 1 m	132
0226920250	Connector + 25-wire axial cable L = 2.5 m	320	0226930250	Connector + 25-wire 90° cable L = 2.5 m	320
0226920500	Connector + 25-wire axial cable $L = 5 m$	636	0226930500	Connector + 25-wire 90° cable $L = 5 m$	636

WIRING DIAGRAM FOR PRE-WIRED PLUG CONNECTORS

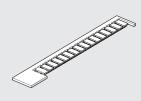
25 PIN						9 PIN	
Position of	Colour of the						
electrical contact	corresponding wire						
1	blue/black	10	brown/white	19	yellow/black	1	green/black
2	red/brown	11	red/orange	20	white	2	white
3	white/black	12	light blue	21	blue/white	3	blue/black
4	red/blue	13	yellow/white	22	brown	4	blue
5	black/orange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

MALE CONNECTOR KIT + CONTACTS + COMMON TERMINAL



Code	Description
0226180201	Male connector kit - 25 pins
0226180202	Male connector kit - 9 pins

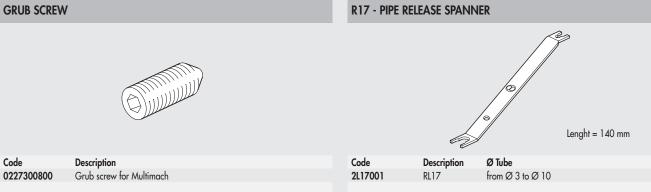
IDENTIFICATION PLATE KIT



Code	Description
0226107000	Identification plate kit

Comes in 16-pc. packs

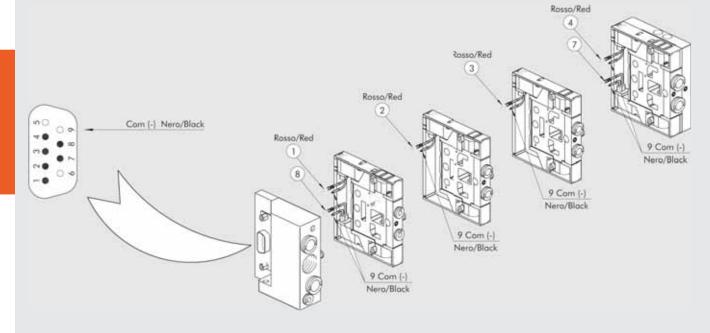
R17 - PIPE RELEASE SPANNER



Comes in 10-pc. pack

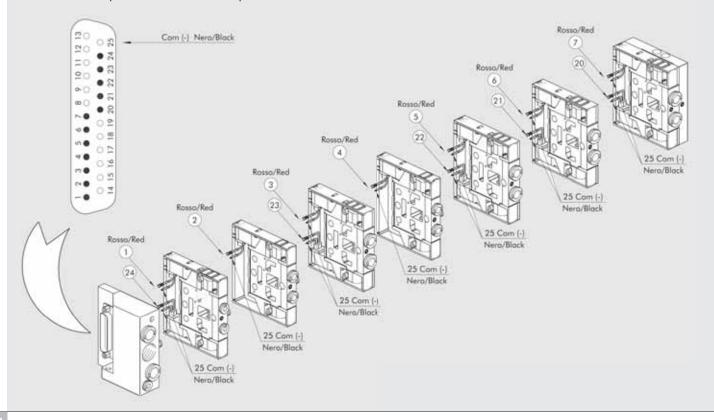
WIRING DIAGRAM OF THE 9-PIN CONNECTOR

Note: available with positive common wire on request.



WIRING DIAGRAM OF THE 25-PIN CONNECTOR

Note: available with positive common wire on request.

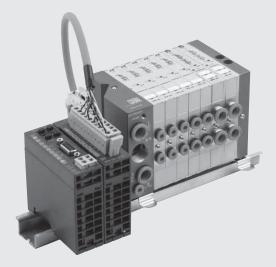


PROFIBUS-DP FOR MULTIMACH AND BASES FOR PLT-10 MULTIPLE CONNECTION



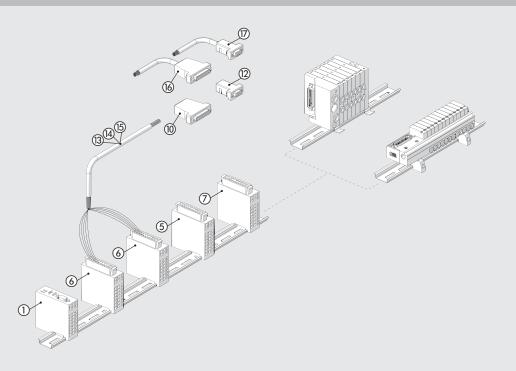
The expandable modular slaves for Multimach and bases for PLT-10 multiple connection follow the same application philosophy of total modularity common to the Multimach system. With full freedom, the slave can be configured by fitting the various modules offered:

- The slave is mounted on a 35 mm DIN bar, next to the Multimach unit.
- The slave is connected to the island via the multiple spring connector of the digital 8-output modules with the 9-pin or 25-pin valve island plug connector, using multi-pin cables.
- Using 1, 2 or 3 digital 8-output modules, it is possible to manage 8, 16 or
- 24 controls of either one or different valve islandsUp to 32 additional modules can be fitted alongside the digital 8-output modules to manage other inputs and outputs. These modules are electrically connected together, using a small
- plate-connector (housed under the modules, inside the DIN bar). There are 4 other types of modules available: for 8 digital inputs; for 8 digital outputs; for 4 analogue inputs and for 4 analogue outputs.
- With this system, a maximum of total 256 Inputs/Outputs can be managed with just one slave!

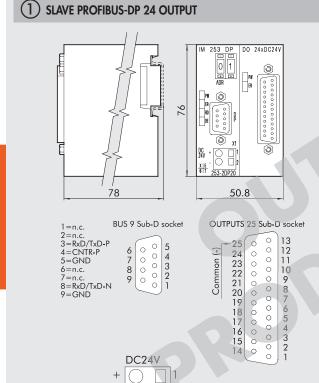


TECHNICAL DATA		
Supply voltage		24 VDC + 20% - 15%
EMC and ESD test		in compliance with IEC 801-2/IEC 801/4 (up to level 3: 8kV/2kV)
Resistance to vibration and impacts test		according to IEC68-2-6/IEC 68-2-27 (1g/12g)
Operating temperature range	°C	0 to 60
Storage temperature	°C	-40 to + 85
Admitted relative humidity		95%
Assembly		On Omega bar (DIN EN 50022) size 35 x 7 or 35 x 15

THE MULTIMACH WORLD: SLAVES, INPUTS AND OUTPUTS



For the connection of the solenoid valve island to the Profibus ① system, the cables ③, ④, ⑤ must be electrically connected to the digital 8-output modules ⑥. If the number of valve controls is less than or equal to 8, use the 10-pin cable and one module ⑥. If it is less than or equal to 16, use the 19-pin cable and two modules (6). With up to 24 valve controls, use 25-pin plug connectors (1), the 9-pin plug connector (2) or pre-wired connectors (6) or (7). You can connect each DIGITAL 8-OUTPUT module (6) to a solenoid valve island.



Code 0240004002

Technical data PROFIBUS-Interface Transmission speed Max number of modules which can be connected Output interface Number of outputs Output data Nominal supply voltage Maximum current for each output Absorption 24V (out excluded)

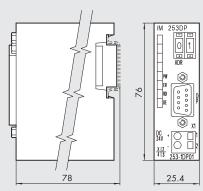
Slave kit Slave PROFIBUS+DO24xDC24V

RS485: 9 pins SubD 9.6 kBaud up to 12 Mbaud 31 (depending on the maximun corrent) 25 pins SubD 24 4 Byte (3used +1) 24 VDC 1A, max total 4A 800 mA

BUS D

PRQEQ

1 SLAVE PROFIBUS-DP



2

 1 = n.c.
 BUS 9 Sub-D socket

 2=n.c.
 3=RxD/TxDP

 4=CNTR-P
 6

 5=GND
 7

 6=n.c.
 8

 7=n.c.
 9

 9=GND
 1

1

2



Code 0240004003

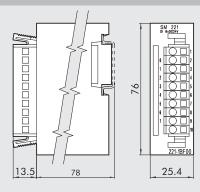
Absorption 24V

Technical data PROFIBUS-DP Interface Transmission speed Max number of modules which can be connected Nominal supply voltage

Description Slave PROFIBUS-DP

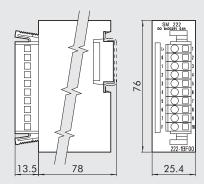
RS485: 9 pins SubD 9.6 kBaud up to 12 Mbaud 32 (depending on the maximun corrent) 24 VDC 70 mA

5 8-DIGITAL INPUT MODULE



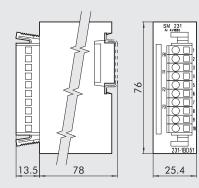
Code	Description
0240004053	DI 8XDC24V unit
Technical data	
Nominal input voltage	24 VDC
Number of inputs	8
Input data	1 Byte
Input voltage at "1"	1528.8V
Output voltage at "0"	05V
Response time	3 ms
Internal Bus voltage	5V
Absorption 5V BUS	20 mA

6 8-DIGITAL OUTPUT MODULE



Code	Description
0240004051	DO 8XDC24V 0.5A unit
Technical data	
Nominal voltage	24 VDC
Number of outputs	8
Output data	1 Byte
Absorption for each channel	1A (max 8A)
Internal Bus voltage	5V
Absorption 5V BUS	70 mA

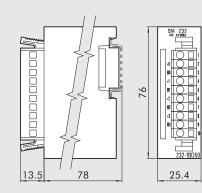
7 4-ANALOG INPUT MODULE



Code	Description
0240004054	AL 4X16 BIT unit
Technical data	
Number of Inputs	4
Input data	8 Byte
Input range	Voltage 0 to 50 mV, 010V, ± 4 mV, ± 4V, ± 10V,
	Current 0/420 mA, +/-20 mA
	Temperature Pt100, Pt1000, Ni100, Ni1000
	Resistance 60 Ω, 600 Ω, 3000 Ω, 16000 Ω
	Thermoelements J, K, N, R, T, S
Resolution	12/16 Bit
Input resistance	20M Ω voltage, 85 Ω current
Time	570 ms
Internal Bus voltage	5 V
Absorption 5V BUS	280 mA

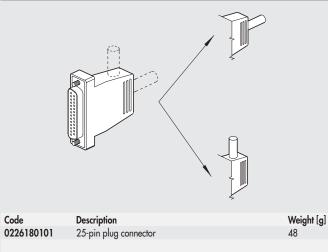
PROFIBUS-DP FOR MULTIMACH AND BASES FOR PLT-10 MULTIPLE CONNECTION DISTRIBUTORS

B2



Code	Description
0240004055	AO 4X12 BIT unit
Technical data	
Number of outputs	4
Output data	8 Byte
Output range	Voltage 010V, ±10V, 15V
	Current 020 mA, 420 mA, ±20 mA
Resolution	12 BIT
Output resistance	Minimum voltage 1 k Ω , Maximum current 500 Ω
Conversion time	0.45 ms
Internal Bus voltage	5 V
Absorption 5V BUS	75 mA

(11) 25-PIN PLUG CONNECTOR KIT

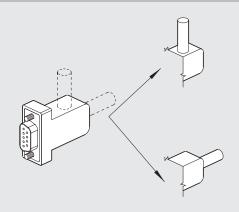


(13) (14) (15) CABLES



Code	Description	Weight [g]
0226107201	10-wire cable	86
0226107101	19-wire cable	122
0226107102	25-wire cable	130
Indicate the desir	ed length in metres	

(12) 9-PIN PLUG CONNECTOR, STRAIGHT OR 90°



Code 0226180102 **Description** 9-pin plug connector

Weight [g] 31

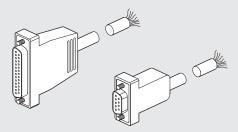
NOTES

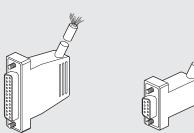


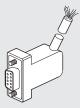


(6) (17) STRAIGHT PRE-WIRED CONNECTOR KIT

16 17 PRE-WIRED 90° CONNECTOR







Code I	Description	Weight [g]	Code	Description	Weight [g]
0226900100	Connector + 9-wire axial cable L = 1 m	90	0226910100	Connector + 9-wire 90° cable L = 1 m	90
0226900250	Connector + 9-wire axial cable L = 2.5 m	220	0226910250	Connector + 9-wire 90° cable L = 2.5 m	220
0226900500	Connector + 9-wire axial cable L = 5 m	434	0226910500	Connector + 9-wire 90° cable L = 5 m	434
0226920100	Connector + 25-wire axial cable L = 1 m	132	0226930100	Connector + 25-wire 90° cable L = 1 m	132
0226920250	Connector + 25-wire axial cable L = 2.5 m	320	0226930250	Connector + 25-wire 90° cable $L = 2.5 \text{ m}$	320
0226920500	Connector + 25-wire axial cable L = 5 m	636	0226930500	Connector + 25-wire 90° cable L = 5 m	636

WIRING DIAGRAM FOR PRE-WIRED PLUG CONNECTORS

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

NOTES

MULTIMACH + B&R

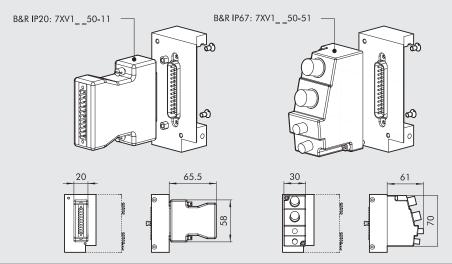
An advanced field bus system interfacing with the Multimach world. B&R has developed a new standard for automation, called FORMULA X. For further details about features, functions and qualities of this system, referance must be made to the B&R documentation, also available on the web site www.br-automation.com

Refer to page **B2**.109 for details of IP20 and IP67 intelligent connectors and X67 modules.

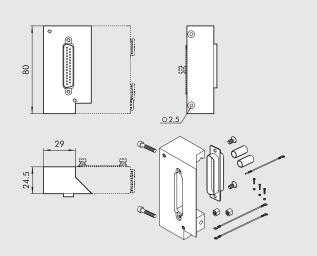
B&R smart connectors can be connected to Multimach islands using the Multimach connector support for B&R presented below.

APPLICATIONS OF B&R MODULES TO THE MULTIMACH CONNECTOR SUPPORT

Refer to page B2.149 for valves, intermediates elements and common accessories.



MULTIMACH CONNECTOR SUPPORT FOR B&R



Code Descr	ption	Weight [g]
0226180005 25-pi	n connector support kit for B&R	140

B2