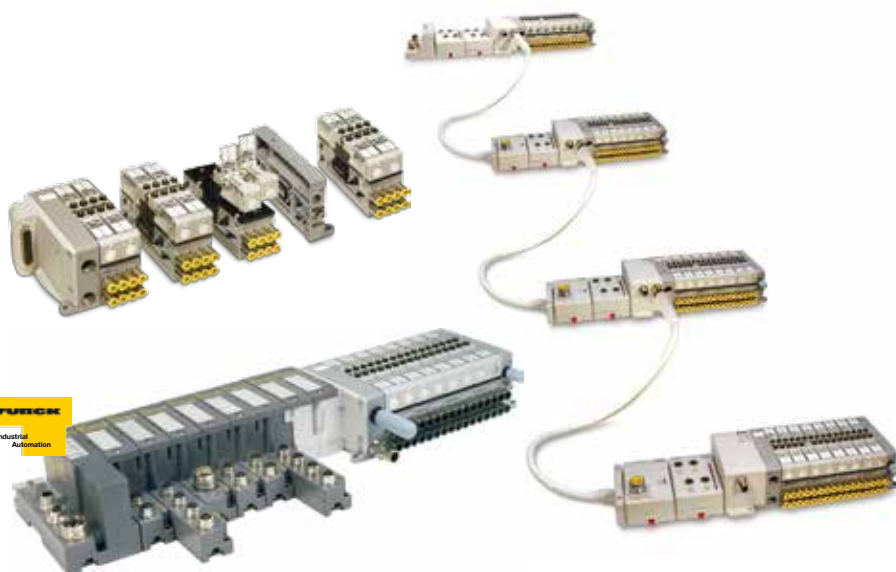


H Series Micro

Plug-in valve island

*Parker's newest and most innovative valve design offers functionality for **every** machine configuration.*



The H Series Micro valve redefines flexibility for pneumatic users. When either configured from basic components or ordered as pre-assembled and tested valve islands, H Series Micro valves are the answer to all your needs.

Flexible in use

The H Series Micro range is fully dedicated to centralized applications where a high quantity of valves have to be concentrated in a single location.

Solenoid valve island can also be implemented with digital or analogical electrical I/O.

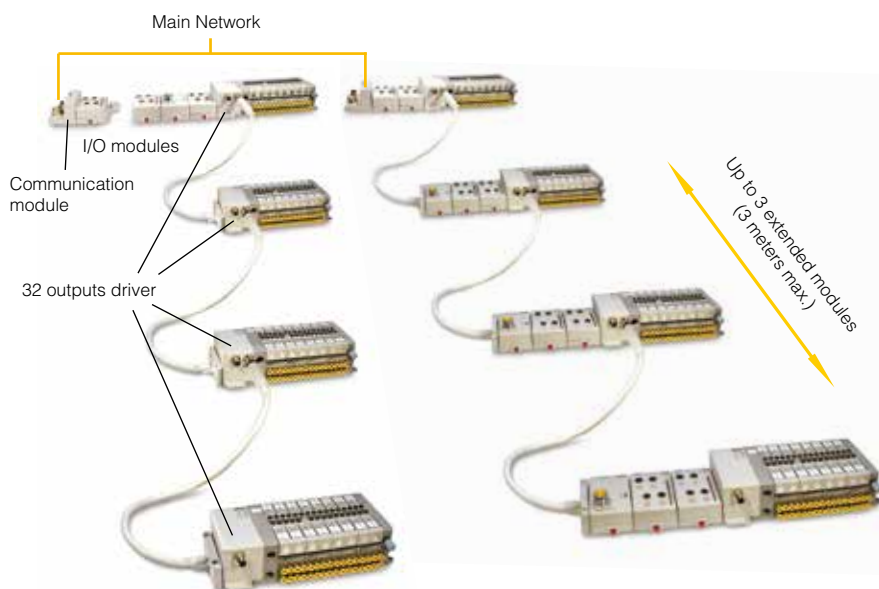
From a centralized application high complexity level to a basic configuration, with H Series Industrial Communication or traditional multi-connection, an H Series Micro valve island can be designed.

One communication module for 256 Inputs and 256 Outputs

The combination of 32 output drivers and electrical I/O modules linked to the main communication module allows H Series Micro valve islands to drive up to 512 I/O, including up to 128 solenoids split between 4 interconnected devices.

Both electrical inputs and outputs modules can also be assembled either on the main or extended islands.

Expansion power supply may be used to provide additional Pointbus backplane current.



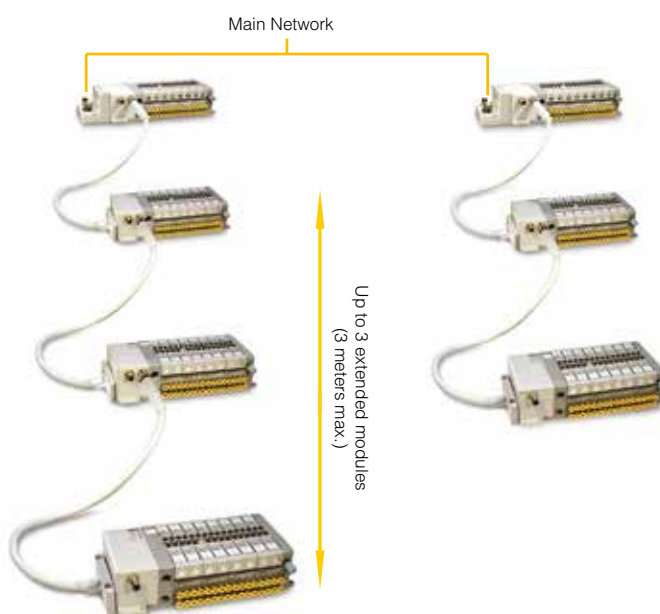
Up to 128 solenoid valves configuration

If a high quantity of valves is required in a centralized application, up to 3 extended islands can be connected to the main device communication module.

All extended islands are connected through a bus extension cable PSSVEXT1 (including 1 m cable and head plate).

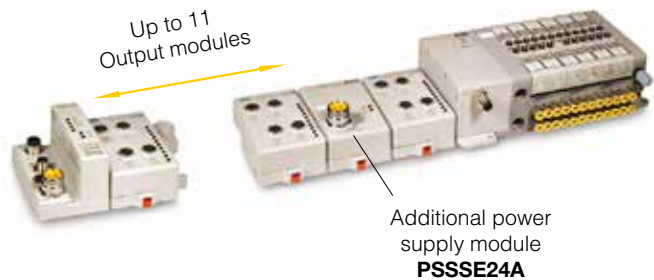
In this configuration, the 32 outputs driver module, on the main island and the extended island, have to be equipped with a "bus extention" M12 connector, excepted for the last extended island.

All 32 outputs driver modules need to be equipped with a M12 solenoids power supply connector.



Up to 256 electrical outputs including 32 solenoid valves

Communication modules include a main 24 VDC power supply for the Bus and up to 10 digital or analogical output modules. Additional power supply is only requested if there are more than 11 output modules.



Up to 32 solenoid valves

Communication modules include a main 24 VDC power supply for the bus and the 32 output driver modules. All solenoids can be energized at the same time.



Island up to 16 or 32 solenoid valves linked to the Turck BL67 remote I/O device series



This electro-mechanical interface allows, with its modularity up to 16 or 32 solenoid valves, an inter-connection to the TURCK BL67 Series, offering a wide choice of H Series Industrial Communication with Field bus and Industrial Ethernet protocols and a complete range of electrical I/O modules.



Island for fieldbus communication in decentralized application

In a decentralized application where a serial communication is required and only a few valves are necessary, different fieldbus protocol modules are also available.

In that case, the valve island has to be equipped with a bus communication head module adaptor.

Depending on the protocol, the head module can pilot up to 16 solenoid valves.



Island with multi-pole connection

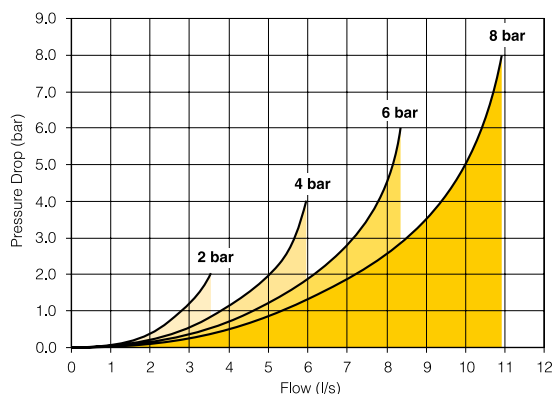
In a decentralized application, when a multi-pole connection is required, the valve island head module can be equipped with a standard Sub-D25 connector.

With this Sub-D25 connection, up to 24 solenoid valves can be piloted.



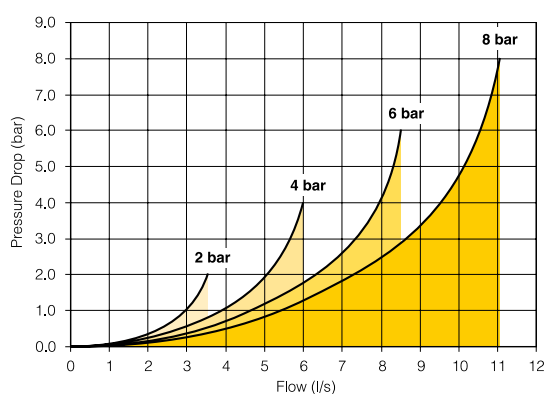
Flow Characteristics

Dual 3/2



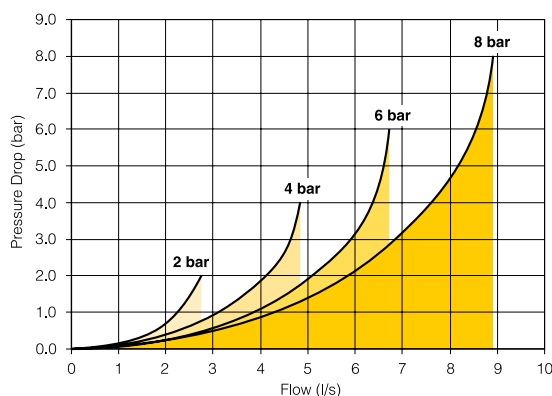
Operating pressure :	2,7 to 8,3 bar
Change-over time (side 14)	Actua. 15 ms Return 20 ms P = 6b
Change-over time (side 12)	15 ms / 25 ms P = 6b
Flow (acc. to ISO 6358) :	c = 1,2 NI/s x bar b = 0,13 Qn = 4,6 NI/s Qmax = 8,4 NI/s

5/2 single and double solenoid



Operating pressure single solenoid:	2,7 to 8,3 bar
Operating pressure double solenoid:	1,7 to 8,3 bar
Change-over time single solenoid:	Actua. 15 ms Return 25 ms P = 6b
Change-over time double solenoid:	13 ms / 13 ms P = 6b
Flow (acc. to ISO 6358) :	c = 1,2 NI/s x bar b = 0,13 Qn = 4,7 NI/s Qmax = 8,5 NI/s

5/3 all ports blocked



Operating pressure :	2,7 to 8,3 bar
Change-over time	Actua. 20 ms Return 20 ms P = 6b
Flow (acc. to ISO 6358) :	c = 1 NI/s x bar b = 0,14 Qn = 3,8 NI/s Qmax = 6,7 NI/s

Characteristics

Fluid :	Air or inert gas Filtered 40 µ Class 5 (according to ISO 8573-1) Dry class 4 (according to ISO 8573-1) Non-lubricated or lubricated	Operating pressure :	-0.9 to 8,3 bar with external pressure 6 bar
Storage temperature :	-40 °C to + 70 °C	Piloting pressure :	2.7 to 8.3 bar
Working temperature	-15 °C to + 50°C	Exhaust collection :	Independant exhaust collection
Vibration :	according to IEC 68-2-6 2G to 150 Hz	Rated coil voltage :	24 VDC -15 % / +10 %
Shock :	according to IEC 68-2-27 15G 11 ms	Electrical connection:	Not polarised
		Coil insulation :	Class B
		Power consumption :	1 W (42 mA) with LED
		Duty factor :	100 % at 20°C

Solenoid operated valve fitted with 24 VDC solenoid

	Symbol	Description	Weight (g)	Order code
 Including multi-function manual override cap		Double 3/2 NC + NC	60	HMNVX2049A
		Double 3/2 NO + NO	60	HMPVX2049A
		Double 3/2 NC + NO	60	HMQVX2049A
		5/2 single solenoid - Spring return	49	HMEVX2049A
		5/2 double solenoid	60	HM2VX2049A
		5/3 all ports blocked (APB)	65	HM5VX2049A
		Blanking module kit (including two M7 plugs for manifold)	30	HMBVX00XXA
		Additional pressure module	30	HMCVX00XXA

Metal manifold for 4 valves (M7 threaded)

	Description	Weight (g)	Order code
 Side ported	4 position manifold single electrical address	332	PSM21JAP
	4 position manifold double electrical address	332	PSM21MAP
 Bottom ported	4 position manifold single electrical address	310	PSM22JAP
	4 position manifold double electrical address	310	PSM22MAP

Complete manifold without fitting (M7 threaded)

	Symbol	Description	Weight (g)	Order code
 Side ported		4 x Double 3/2 NC + NC	572	PSM31MAPN0N0N0N0
		4 x 5/2 single solenoid - Spring return	528	PSM31JAPE0E0E0E0
		4 x 5/2 double solenoid	572	PSM31MAP20202020
		4 x 5/3 all ports blocked (APB)	592	PSM31MAP50505050
 Bottom ported		4 x Double 3/2 NC + NC	550	PSM32MAPN0N0N0N0
		4 x 5/2 single solenoid - Spring return	506	PSM32JAPE0E0E0E0
		4 x 5/2 double solenoid	550	PSM32MAP20202020
		4 x 5/3 all ports blocked (APB)	570	PSM32MAP50505050

Pneumatic accessories

	Description	Size	Tube OD	Material	Order code
	Straight pneumatic connector for sub-base and Px	M7	4 mm	Metal	F28PMB4M7MD
		M7	6 mm	Metal	F28PMB6M7MD
	Straight pneumatic connector for Ex	1/8"	6 mm	Metal	F4PMB6-1/8
		3/8"	8 mm	Metal	F4PB8-3/8
		3/8"	10 mm	Metal	F4PB10-3/8
		3/8"	12 mm	Metal	F4PB12-3/8
	Muffler for Ex	1/8"		Metal	ESB12MC
		1/8"		Plastic	P6M-PAB1
	Muffler for exhaust port	3/8"		Metal	ESB37MC

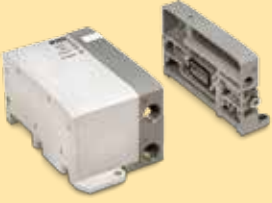
Multi-pressure inter-manifold seal plate

	Description	Pressure port	Exhaust port	Weight (g)	Order code
	Inter-manifold seal plate	Passing / Passing	Passing	16	PSM0001
		Passing / Block	Passing	20	PSM0002
		Passing / Block	Block	30	PSM0003
		Block / Block	Block	40	PSM0004

Spare parts

	Description	Weight (g)	Order code
	24 VDC Pilot solenoid with screws	11	PSM0010
	Set of 10 multifunction manual override caps	15	PSM0011
	Set of 5 valve manifold gaskets and 10 screws	25	PSM0012
	Set of 10 M7 plugs for auxiliary pressure selection	30	PSM0013
	Set of 10 labels (in the P/N, x has to be replaced with the valve function letter)	5	PSM002x
	Set of 10 manifold to manifold M3 screws	20	PSM0014

32 output driver end modules ordering chart



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32 Output driver end modules

	24 VDC power supply connector	Extender bus connector
L6	NO	NO
M5	NO	YES
M6	YES	NO
M7	YES	YES

Ported design		Thread type
1	Side ported	3/8" BSPP
2	Bottom ported	3/8" BSPP
5	Side ported	3/8" NPT
6	Bottom ported	3/8" NPT

32 outputs driver selection guide :

L6 type

- 32 outputs driver with internal solenoids power supply from the communication head module
- Extended valve island not possible



Up to 32 solenoid valves per island

M6 type

- 32 outputs driver with external solenoids power supply by M12 male connector
- Extended valve island not possible



Up to 32 solenoid valves per island

M7 type

- 32 outputs driver with external solenoids power supply by separated M12 male connector
- Extended Bus link connection for additional valve islands by separate M12 female connector



Up to 32 solenoid valves per island

M5 type

- 32 outputs driver with internal solenoids power supply from the communication head module
- Extended Bus link connection for additional valve islands by separate M12 female connector

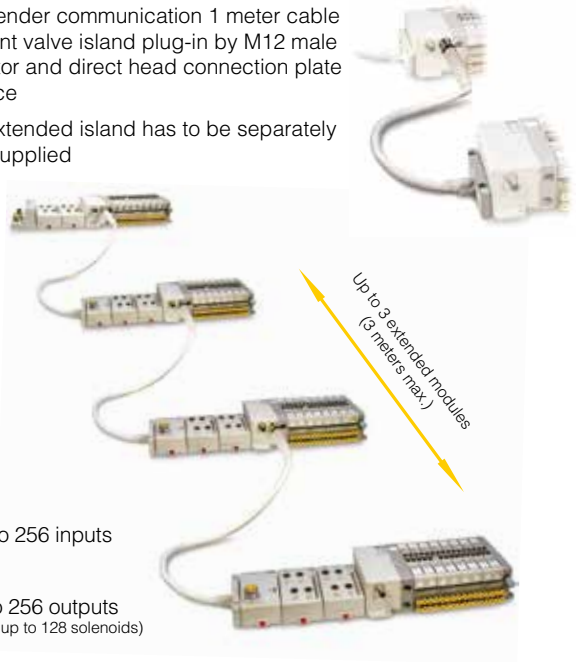


Up to 32 solenoid valves per island

Bus extender

Bus extender communication 1 meter cable for instant valve island plug-in by M12 male connector and direct head connection plate on device

Every extended island has to be separately power supplied



Up to 3 extended modules
(3 meters max.)

Up to 256 inputs

Up to 256 outputs
(including up to 128 solenoids)

Technical data

32 Outputs driver modules

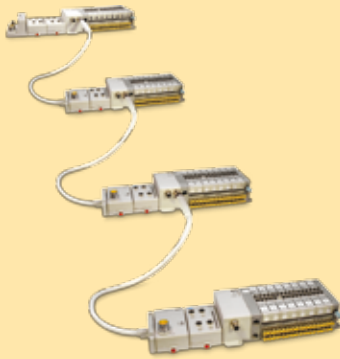
- Number of Outputs : 32
- Operating Voltage Range : 20,4 to 26.4 VDC
- Output current rating Nom. : 50 mA per chanel (100 mA Max)
3.2A per module
- Pointbus current : 200 mA
- Working temperature : -15°C to 50°C
- Dust and water protection : IP65

32 outputs driver modules

	Sub-base design	Thread type	24 VDC power supply	Extender bus	Weight (g)	Order code
	Side ported	3/8" BSPP	NO	NO	400	PSML61AP
	Bottom ported	3/8" BSPP	NO	NO	400	PSML62AP
	Side ported	3/8" BSPP	YES	NO	400	PSMM61AP
	Bottom ported	3/8" BSPP	YES	NO	400	PSMM62AP
	Side ported	3/8" BSPP	NO	YES	400	PSMM51AP
	Bottom ported	3/8" BSPP	NO	YES	400	PSMM52AP
	Side ported	3/8" BSPP	YES	YES	400	PSMM71AP
	Bottom ported	3/8" BSPP	YES	YES	400	PSMM72AP

Bus extender

	Description	Weight (g)	Order code
	Head plate 1 meter cable / M12 male connector for extended island inter-connection	380	PSSVEXT1



Communication modules :

- Fieldbus
- Industrial Ethernet

Digital and Analogical I/O modules

Extended power supply module

IP67 modules

H Series Industrial Communication and I/O modules

H Series Industrial Communication modules

H Series Industrial Communication modules are available in :

- DeviceNet
- Profibus DP
- Ethernet I/P
- ControlNet



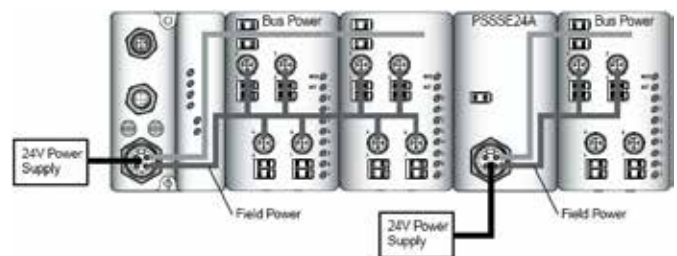
Digital or Analogical electrical I/O modules

Some modules have diagnostic features, electronic fusing, or individually isolated inputs/outputs. The H Series Industrial Communication family provides a wide range of input and output modules to span many applications, from highspeed discrete to process control. H Series Industrial Communication supports producer/consumer technology, which allows input information and output status to be shared among multiple Logix controllers.



Extension Power Unit

The auxiliary power supports up to 10 I/O modules and 32 output driver with a maximum of 10 A field power. The 24 VDC extension power unit (PSSSE24A) extends the backplane bus power to support up to 10 more I/O modules. Connect additional extension power units to expand the I/O assembly up to 63 I/O modules



Technical data

Industrial Communication modules & Extension power unit

Bus power supply :	24 VDC at 400 mA
Power supply input voltage :	24 VDC
Operative voltage range :	10 to 28.8 VDC
Input overvoltage protection :	Reverse polarity protected

Analogue Input modules

Number of Outputs :	2
Input signal Range :	4 to 20 mA / 0 to 10 VDC
Pointbus current :	75 mA

Analogue Output modules

Number of Outputs :	2
Input signal Range :	4 to 20 mA / 0 to 10 VDC
Pointbus current :	75 mA

Digital Input modules

Number of Outputs :	8 – PNP or NPN
Operating Voltage Range :	10 to 28.8 VDC
Input current on-state :	2 to 5 mA
Input current off-state :	1,5 mA
Pointbus current :	75 mA

Digital Output modules

Number of Outputs :	8
Operating Voltage Range :	10 to 28.8 VDC
Output current rating Max. :	1 A per channel 3 A per module
Pointbus current :	75 mA

Relay Output modules

Number of Outputs :	4 – NO contacts
Operating Voltage Range :	5 to 28.8 VDC
Output current rating Max. :	2 A per channel 8 A per module
Pointbus current :	90 mA

H Series Industrial Communication modules

	Description	Fieldbus connection	Power supply connector	Weight (g)	Order code
	DeviceNet	M18	7/8" - 4 pins	400	PSSCDM18PA
		M12 - A coding	7/8" - 4 pins	400	PSSCDM12A
	Profibus DP	M12 - B coding	7/8" - 5 pins	380	PSSCPBA
	Ethernet I/P	M12 - D coding	7/8" - 4 pins	380	PSSCENA
	ControlNet	M12 - D coding	7/8" - 4 pins	380	PSSCCNA

Electrical I/O modules

	Description	Polarity	Connector type	Weight (g)	Order code
	8 Digital Inputs	PNP	8 x M8	400	PSSN8M8A
			4 x M12	380	PSSN8M12A
		NPN	4 x M12	380	PSSP8M12A
	8 Digital Outputs	PNP	8 x M8	400	PSST8M8A
			4 x M12	380	PSST8M12A
			1 x M23	400	PSST8M23A
	4 Digital Outputs	Relay	4 x M12	410	PSSTR4M12A
	2 Analogue Inputs	0 - 10 V	2 x M12	400	PSSNAVM12A
		4 - 20 mA	2 x M12	400	PSSNACM12A
	2 Analogue Outputs	0 - 10 V	2x M12	400	PSSTAVM12A
		4 - 20 mA	2 x M12	400	PSSTACM12A

Auxiliary electrical modules

	Description	Connector type	Weight (g)	Order code
	24 VDC expansion power unit	7/8" - 4 pins	420	PSSSE24A

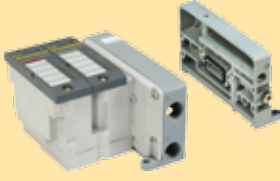
Bus extender

	Description	Length	Weight (g)	Order code
	Bus extender cable for module interconnection	1 meter	380	PSSVEXT1
		3 meters	760	PSSVEXT3
	Termination module		200	PSSTERM

Accessories

	Description	Bus protocol	Connector type	Weight (g)	Order code
	Power supply connector	DeviceNet, ControlNet & Ethernet	7/8" - 4 pins	40	P8CS7804AA
		Profibus DP	7/8" - 5 pins	40	P8CS7805AA
	Line termination	DeviceNet	M12 - A coding	25	P8BPA00MA
		Profibus DP	M12 - B coding	25	P8BPA00MB
	Bus IN female connector	DeviceNet	M12 - A coding	25	P8CS1205AA
		Profibus DP	M12 - B coding	25	P8CS1205AB
	Bus OUT male connector	DeviceNet	M12 - A coding	25	P8CS1205BA
		Profibus DP	M12 - B coding	25	P8CS1205BB
	Cable quick connect connector		M8	25	P8CS0803J
			M12 - A coding	25	P8CS1204J
	"Y" shape, thread to thread		M12 - 2 x M12	25	P8CSY1212A

16 Outputs Moduflex Bus ends module adaptor



TURCK BL67 Series adaptor

T0	Valve Driver Module without output module
T1	Valve Driver Module for 16 Outputs
T2	Valve Driver Module for 32 Outputs

For T0 version, 16 output module and blank module can be ordered separately from the next page or directly from TURCK under the same part number.

Ported design

	Ported design	Thread type
1	Side ported	3/8" BSPP
2	Bottom ported	3/8" BSPP
5	Side ported	3/8" NPT
6	Bottom ported	3/8" NPT

Modularity up to 16 or 32 Outputs :

- Populated with 1 or 2 standard TURCK 16 Output modules BL67-16DO-0. 1A-P, the Valve Driver Module can handle up to 16 or 32 solenoid valves.
- For a 16 Outputs configuration, the second slot has to be populated with 1 standard TURCK blank module BL67-E.

Valve driver Module for 16 or 32 Outputs

Modularity up to 16 or 32 Outputs :

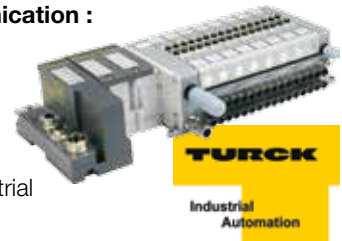
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- For a 16 Outputs configuration, the second slot has to be populated with 1 standard TURCK blank module BL67-E.



TURCK BL67 communication gateway

H Series Industrial Communication :

- Linked to a TURCK BL67 communication module (programmable or not programmable), the device can be connected to a wide choice of Field Bus or Industrial Ethernet protocols.

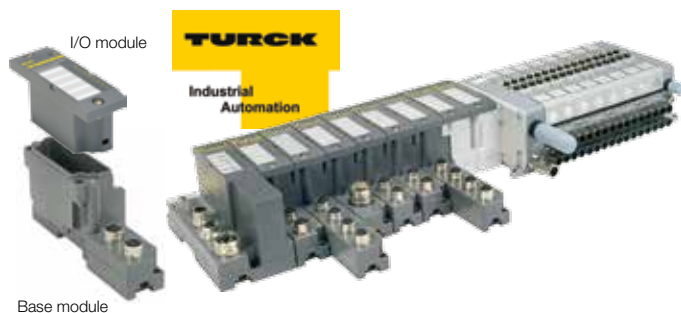


TURCK BL67 I/O and Base modules

The 2 piece design allows to complete the device with a choice through a full digital or analogue **I/O modules** range populating the **base module** existing with a multiple choice of electrical connection (M8, M12, M23, 7/8")

The complete resulting configuration can handle :

- Up to 32 electrical modules (up to 2 in the Valve Driver Module)
- Up to 256 digital I/O (up to 32 outputs in the Valve Driver Module)
- Up to 64 analog I/O



Full description of TURCK BL67 Series on <http://www.turck.com>

Valve Driver Module - TURCK BL67 adaptor

	Description	Solenoid Valves	Sub-base design	Thread type	Weight (g)	Order code
	Valve Driver Module	0	Side ported	3/8" BSPP	200	PSMT01AP
		Without 16 O module	Bottom ported	3/8" BSPP	200	PSMT02AP
		16 Outputs or blank module to be ordered separately (see below)				
		16	Side ported	3/8" BSPP	270	PSMT11AP
		Including : - 1 x 16 O module - 1 blank module	Bottom ported	3/8" BSPP	270	PSMT12AP
		32	Side ported	3/8" BSPP	310	PSMT21AP
		Including : - 2 x 16 O modules	Bottom ported	3/8" BSPP	310	PSMT22AP

Standard TURCK BL67 module

	Description	Weight (g)	Order code
	16 Outputs module for 16 or 32 solenoid valves configuration	55	BL67-16DO-0.1A-P
	Blank module for 16 solenoid valves configuration	15	BL67-E

Both standard TURCK BL67 Outputs module and Blank module can be ordered directly from TURCK under the same part number.

16 Outputs module BL67-16DO-0.1A-P technical specifications

Number of channels	16	Dimensions (W x L x H)	32 x 91 x 59 mm
Nominal voltage V_O	24 VDC	Approvals	CE, cULus
Rated current from field supply	≤ 100 mA	Operating temperature	Refer to solenoid valve
Rated current from module bus	≤ 30 mA	Storage temperature	-40°C to +70°C
Power loss, typical	≤ 1.5 W	Vibration	According to IEC68-2-6 : 2g to 150 Hz
		Shock test	According to IEC68-2-27 : 15g to 11 ms
Output type	PNP	Electro-magnetic compatibility	acc. to EN61131-2
Output voltage	24 VDC	Protection class	IP 65
Output current per channel	140 mA rated current (with VN 01-05 or higher)	Tightening torque fixing screws	0.9 ... 1.2 Nm
Output delay	3 ms		
Load type	resistive, inductive		
Short-circuit protection	yes		
Simultaneity factor	1		
Electrical isolation	electronics for the field level		

16 Outputs Moduflex Bus ends module adaptator



P S M M C 1 A P

Moduflex 16 Outputs adaptator	
M4	Adaptor without bus module
MC	Adaptor with CANopen module
MD	Adaptor with DeviceNet module
MP	Adaptor with Profibus DP module

For AS-i communication, use M4 and see Moduflex Valve catalogue for AS-i module part number.

Ported design		Thread type
1	Side ported	3/8" BSPP
2	Bottom ported	3/8" BSPP
5	Side ported	3/8" NPT
6	Bottom ported	3/8" NPT

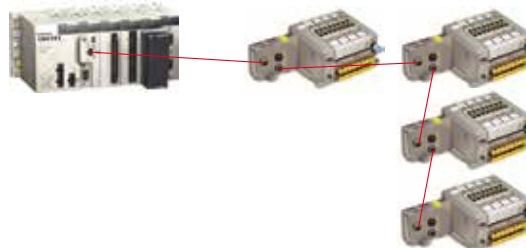
Moduflex Bus 16 Outputs

16 solenoids fieldbus modules available in DeviceNet, CANopen, and Profibus DP protocols.



Closer to the cylinder

Decentralized application when solenoid valves have to be closer to the pneumatic actuators.



Technical data

Moduflex Bus communication modules

Bus power supply : 20 to 30 VDC
 Power supply output voltage : 24 VDC
 Module consumption :
 • DeviceNet : 1,5 W
 • CANopen : 1,5 W
 • Profibus DP : 1,5 W

Water and dust Protection : IP65
 Output protection : overload protected

Moduflex Bus modules

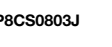
Description	Bus protocol	Sub-base design	Thread type	Weight (g)	Order code
 Moduflex Bus module	CANopen	Side ported	3/8" BSPP	250	PSMMC1AP
		Bottom ported	3/8" BSPP	250	PSMMC2AP
	DeviceNet	Side ported	3/8" BSPP	250	PSMMD1AP
		Bottom ported	3/8" BSPP	250	PSMMD2AP
	Profibus DP	Side ported	3/8" BSPP	250	PSMMP1AP
		Bottom ported	3/8" BSPP	250	PSMMP2AP

Also available, AS-i interface protocol, standard version or extended version (A - B coded). See Moduflex Valve catalogue.

 End modules adaptator without Moduflex Bus module	All	Side ported	3/8" BSPP	200	PSMM41AP
		Bottom ported	3/8" BSPP	200	PSMM42AP

For configuration files, go to : <http://www.parker.com/pneu/moduflex>.

Decentralized Device bus accessories

Description	Bus protocol	Connector type	Weight (g)	Order code
 P8CS0803J	All	M12 - A coding	25	P8CS1205AA
	DeviceNet	M12 - A coding	25	P8BPA00MA
 P8CSY1212A	CANopen	M12 - B coding	25	P8BPA00MB
	Profibus DP	M12 - A coding	25	P8CS1205AA
 P8CSY1212A	DeviceNet	M12 - B coding	25	P8CS1205AB
	CANopen	M12 - A coding	25	P8CS1205BA
 P8CSY1212A	Profibus DP	M12 - B coding	25	P8CS1205BB
		M8	25	P8CS0803J
 P8CSY1212A		M12 - A coding	25	P8CS1204J
		M12 - 2 x M12 - A coding	25	P8CSY1212A

Multi-connection head module



PSML21AP

Multi-wire connection	
L2	Sub-D25 connector

Ported design		Thread type
1	Side ported	3/8" BSPP
2	Bottom ported	3/8" BSPP
5	Side ported	3/8" NPT
6	Bottom ported	3/8" NPT

Sub-D25 connection

Up to 24 solenoids on standard Sub-D25 connector.



Technical data



Address	Pin Number	Pin Number	Address
2	14	1	1
4	15	2	3
6	16	3	5
8	17	4	7
10	18	5	9
12	19	6	11
14	20	7	13
16	21	8	15
18	22	9	17
20	23	10	19
22	24	11	21
24	25	12	23
		13	Common



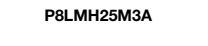
Address	Color	Pin Number	Pin Number	Color	Address
1	Black	1	14	Brown / White	2
3	Brown	2	15	Red / White	4
5	Red	3	16	Orange / White	6
7	Orange	4	17	Green / White	8
9	Yellow	5	18	Blue / White	10
11	Green	6	19	Purple / White	12
13	Blue	7	20	Red / Black	14
15	Purple	8	21	Orange / Black	16
17	Gray	9	22	Yellow / Black	18
19	White	10	23	Green / Black	20
21	Pink	11	24	Gray / Black	22
23	Lt Green	12	25	Pink / Black	24
	Common Black / White	13			

Rated voltage :	24 VDC
Maximum addresses :	24
Maximum energised simultaneously :	24
Electrical connection :	Sub-D25 pin DIN 41652, MIL-C-24308, NFC93425 type HE5
Polarity :	PNP and NPN compatible (solenoids not polarized)
Dust and water protection :	IP65 rated with properly assembled IP65 rated cable

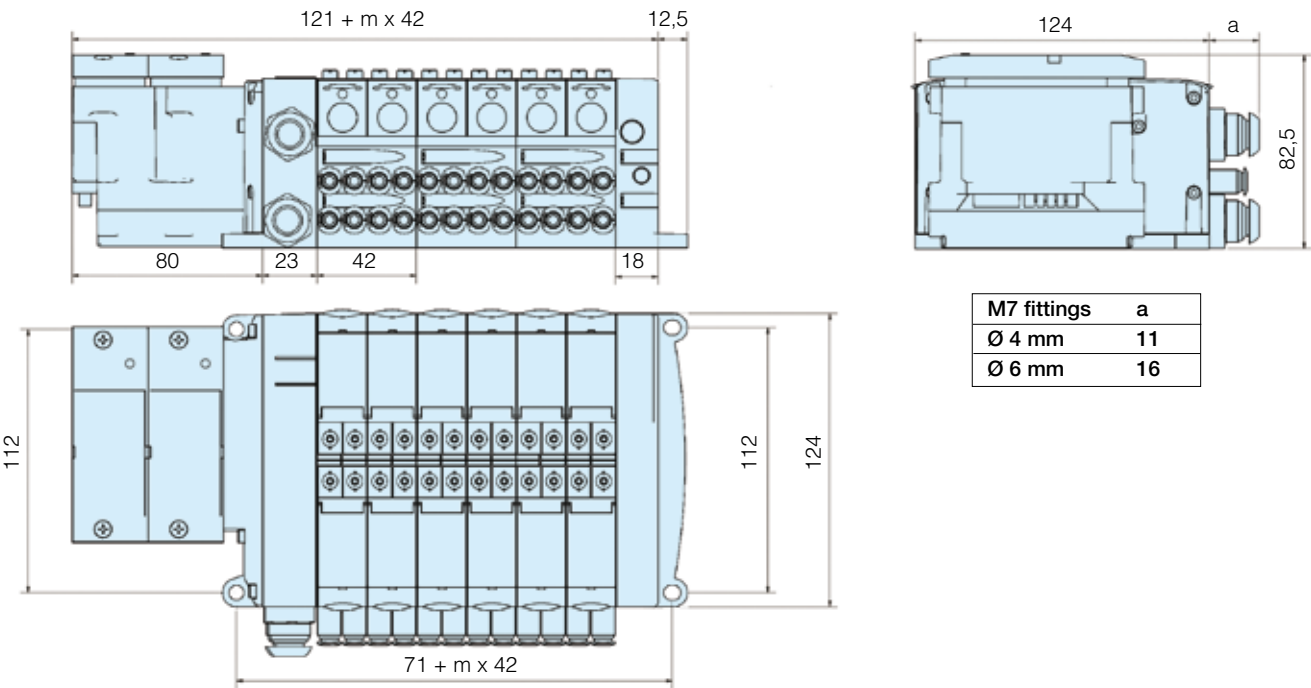
Electrical multi-pole end modules

Description	Sub-base design	Thread type	Weight (g)	Order code
	Side ported	3/8" BSPP	250	PSML21AP
	Bottom ported	3/8" BSPP	250	PSML22AP

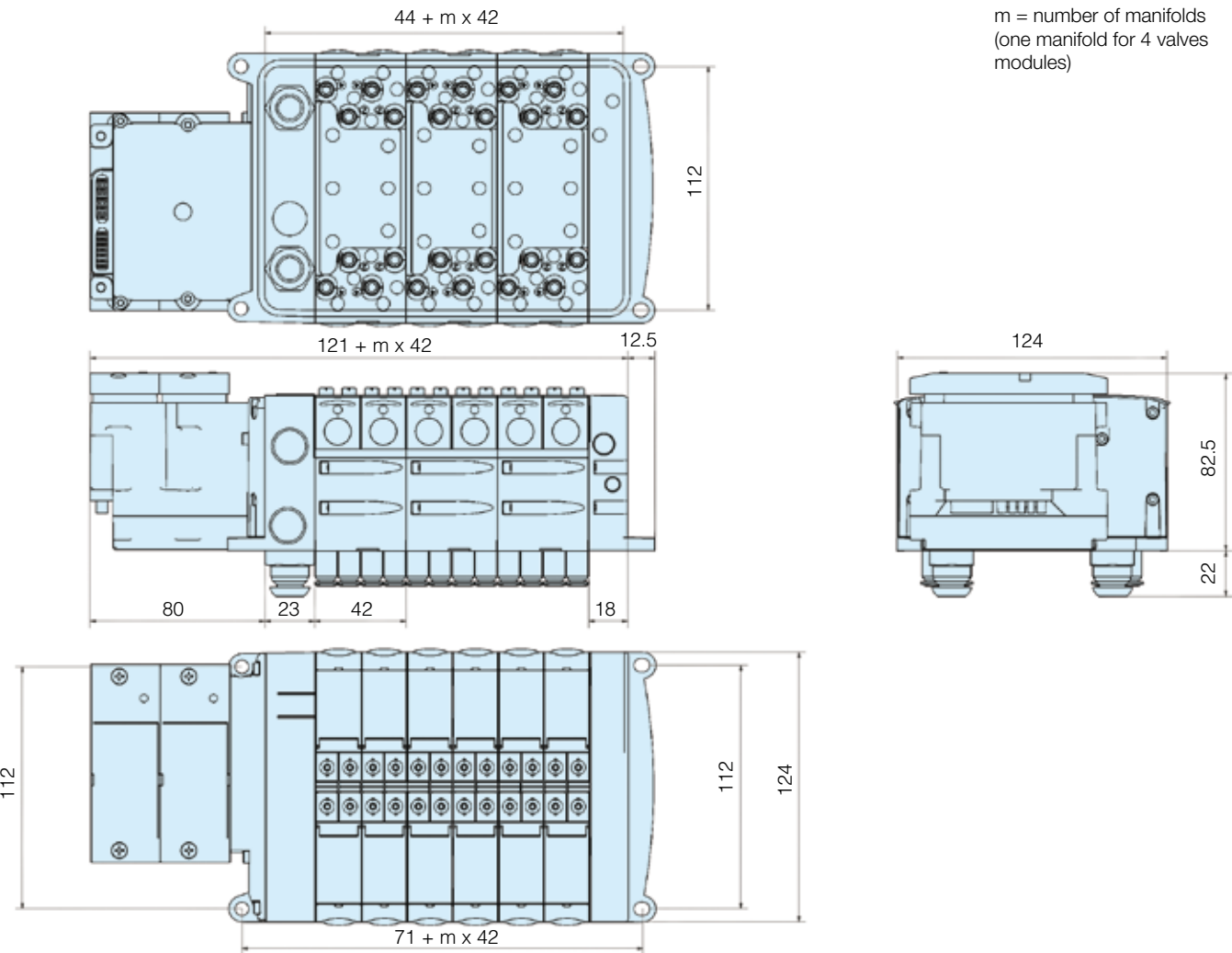
Electrical accessories

Description	Cable length	Weight (g)	Order code
	3 m	380	P8LMH25M3A
	9 m	780	P8LMH25M9A
 P8LMH25M3A	9 m	790	P8LMH25B9A

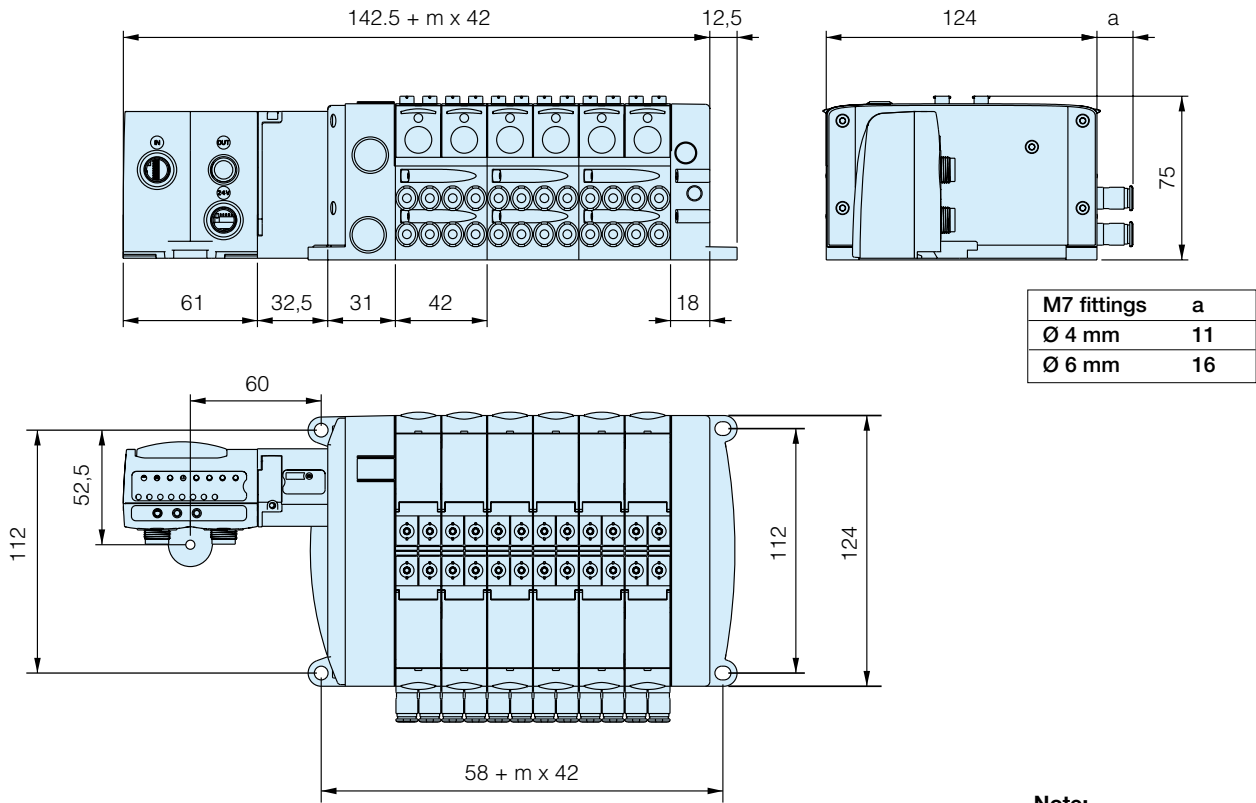
H Series Micro Valve with TURCK BL67 adaptor - Side ported



H Series Micro Valve with TURCK BL67 adaptor - Bottom ported

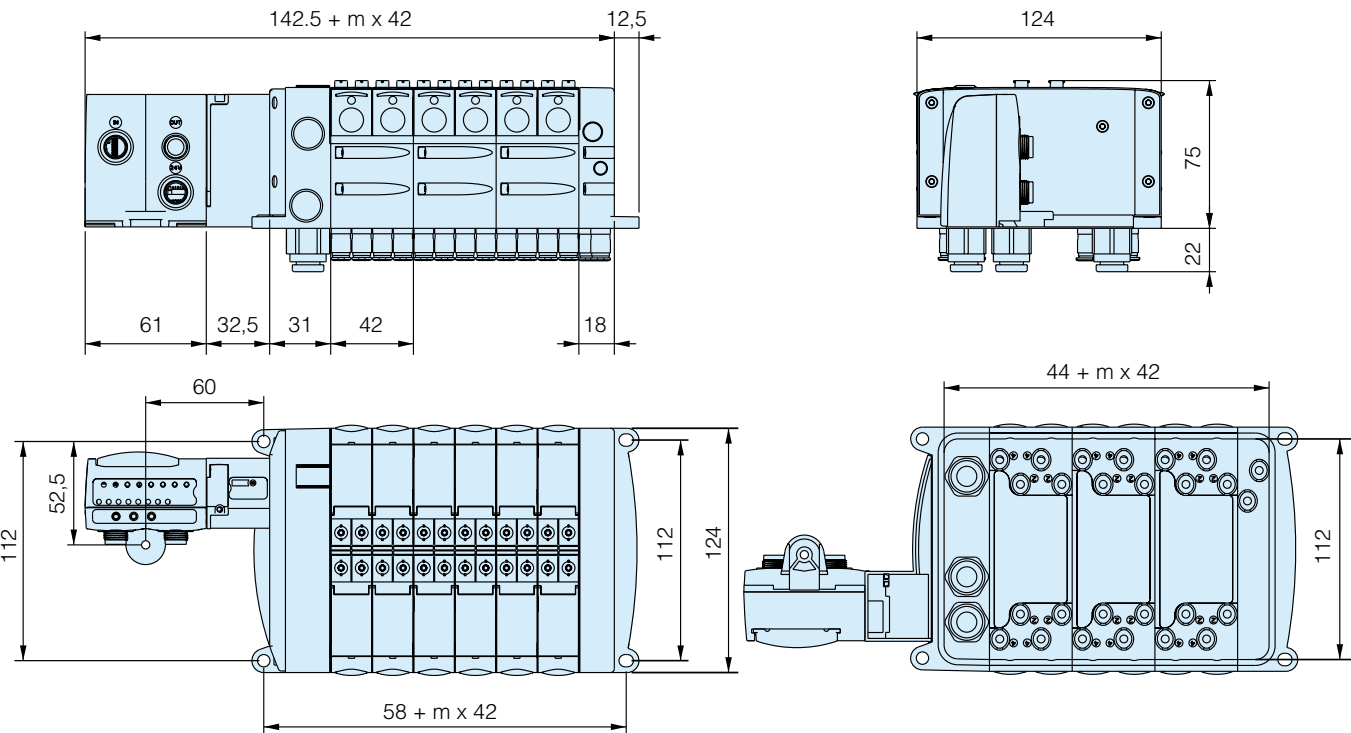


Fieldbus - Side ported

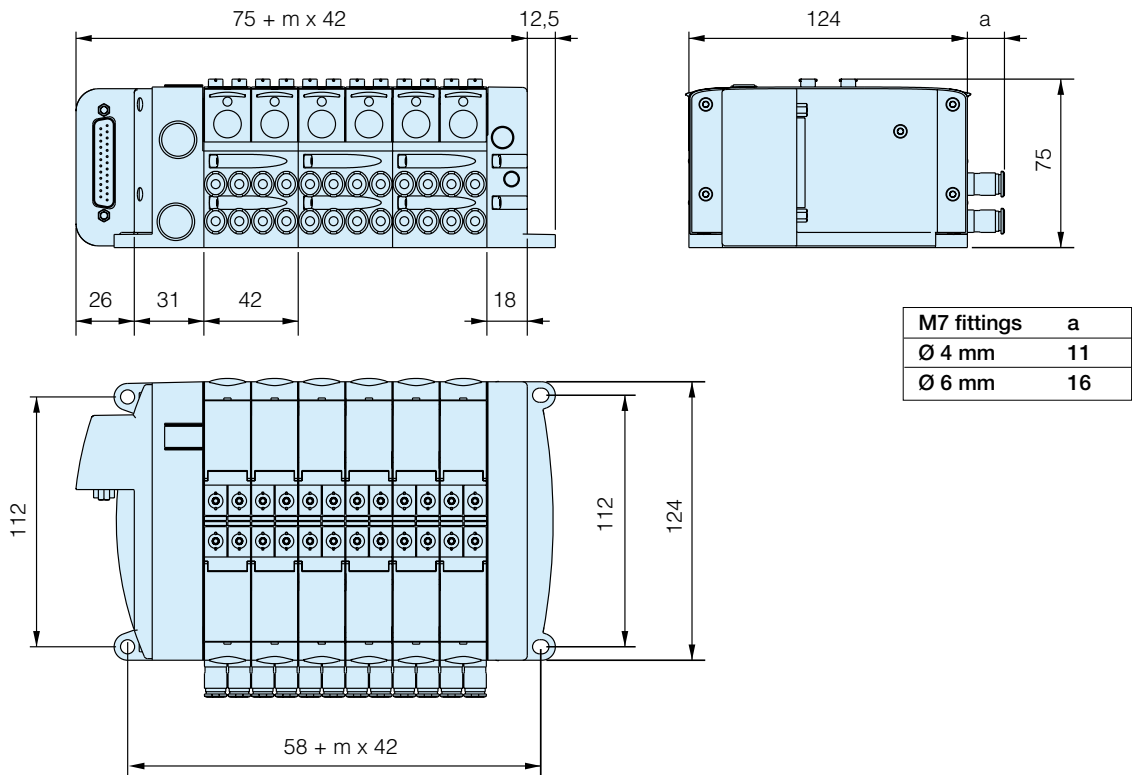


Note:
m = number of manifolds
(one manifold for 4 valves
modules)

Fieldbus - Bottom ported



SubD25 - Side ported



Note:
 m = number of manifolds
(one manifold for 4 valves modules)

SubD25 - Bottom ported

