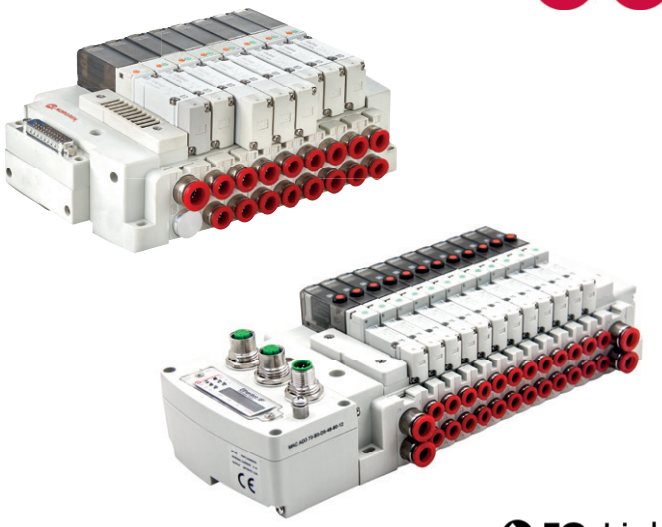
VR Series, 2 x 3/2, 5/2 or 5/3 Valve Islands

- Vertical or Horizontal 24V DC Multipole
- Industrial Ethernet, Fieldbus and IO-Link
- 10/15mm Valve Island
- Modular system offering a wide range of configuration options
- LED indicator of solenoid function
- No restriction in installation
- Up to 24 solenoids
- Easy to replace valves and fittings
- IP40 or IP65 protection
- To configure and order a Valve Island visit - www.norgren.com



IO-Link

CANopen PROFINET EtherNet/IP EtherCAT

Technical features

Medium:
Compressed air, filtered to 40 µm, lubricated or non-lubricated

Operation:
Dynamic softseal spool valve, solenoid pilot operated

Flow:

VR10

Function	l/min	Cv	Kv
5/2	220	0.22	0.20
5/3	270	0.27	0.24
2 x 3/2	220	0.22	0.20

VR15

Function	l/min	Cv	Kv
5/2	520	0.53	0.47
5/3	590	0.60	0.54
2 x 3/2	460	0.47	0.42

Mounting:
Sub-base

Ports 1, 3 & 5 (P,E):
VR10: PIF 8 mm, 5/16"
VR15: PIF 10 mm, 3/8"

Ports 2 & 4 (A,B):
VR10: PIF 4 mm, 6 mm, 5/32", 1/4"
VR15: PIF 4 mm, 6 mm, 8 mm, 5/32", 1/4", 5/16"

Operating pressure:
Maximum pressure 7 bar (101 psi). Details of minimum and maximum pilot pressure see overleaf

Media/Ambient temperature:
-5 ... +50 °C (+23 ... 122 °F)
Air supply must be dry enough to avoid ice formation at temperatures below +2 °C (+35 °F).

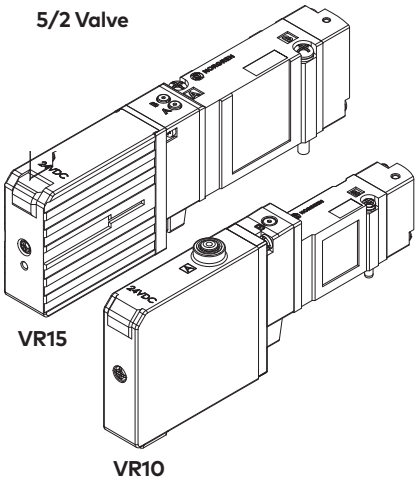
Materials:
Body:
ZnDC and ADC
Spool: Aluminium
Seal: NBR
Sub-base: PA66

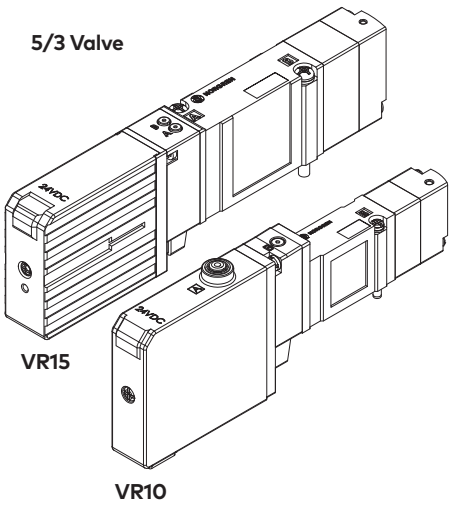
Electrical details for solenoid operators

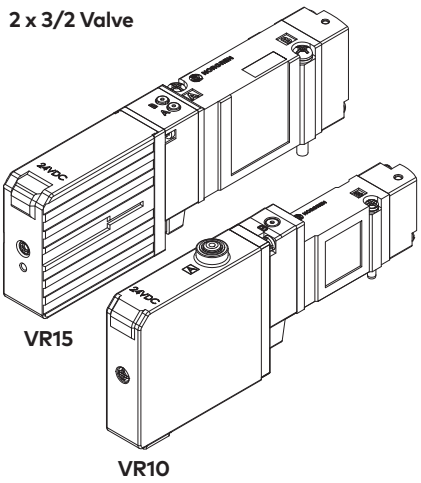
Supply voltage*:	12 V d.c. & 24 V d.c.
Power consumption*:	12 V d.c. & 24 V d.c. 0.45W (Energy saving type)
Manual override:	Push only
Rating:	100 % E.D.
Indication:	LED red/green
Surge surpression:	surge protecting circuit is equipped
Protection class:	IP40 or IP65

*12 V d.c. valves only for Multipole and CANopen

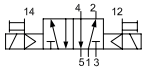
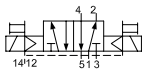
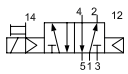
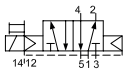
Technical data valve





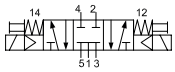
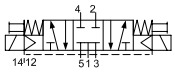
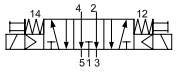
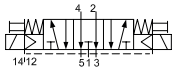
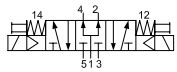
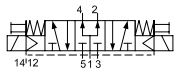


5/2 Single and double solenoid actuated valves

Symbol	Series	Function	Actuation	Pilot Supply	Pilot Pressure (bar / psi)	Operating Pressure (bar / psi)	Manual Override	Voltage *1)	Weight (kg / lbs)	Model PNP
	VR10	5/2	Sol./Sol.	Internal	2~7 / 29~101	2~7 / 29~101	Push only	24 V d.c.	0.069 / 0.1518	VR10S511BV313A
	VR15	5/2	Sol./Sol.	Internal	2~7 / 29~101	2~7 / 29~101	Push only	24 V d.c.	0.093 / 0.2046	VR15S511BV313A
	VR10	5/2	Sol./Sol.	Internal	2~7 / 29~101	2~7 / 29~101	Push only	12 V d.c.	0.069 / 0.1518	VR10S511BV312A
	VR15	5/2	Sol./Sol.	Internal	2~7 / 29~101	2~7 / 29~101	Push only	12 V d.c.	0.093 / 0.2046	VR15S511BV312A
	VR10	5/2	Sol./Sol.	External	2~7 / 29~101	-1~7 / -14.5~101	Push only	24 V d.c.	0.069 / 0.1518	VR10S522BV313A
	VR15	5/2	Sol./Sol.	External	2~7 / 29~101	-1~7 / -14.5~101	Push only	24 V d.c.	0.093 / 0.2046	VR15S522BV313A
	VR10	5/2	Sol./Sol.	External	2~7 / 29~101	-1~7 / -14.5~101	Push only	12 V d.c.	0.069 / 0.1518	VR10S522BV312A
	VR15	5/2	Sol./Sol.	External	2~7 / 29~101	-1~7 / -14.5~101	Push only	12 V d.c.	0.093 / 0.2046	VR15S522BV312A
	VR10	5/2	Sol./Spring	Internal	2~7 / 29~101	2~7 / 29~101	Push only	24 V d.c.	0.061 / 0.1342	VR10S513BV313A
	VR15	5/2	Sol./Spring	Internal	2~7 / 29~101	2~7 / 29~101	Push only	24 V d.c.	0.084 / 0.1848	VR15S513BV313A
	VR10	5/2	Sol./Spring	Internal	2~7 / 29~101	2~7 / 29~101	Push only	12 V d.c.	0.061 / 0.1342	VR10S513BV312A
	VR15	5/2	Sol./Spring	Internal	2~7 / 29~101	2~7 / 29~101	Push only	12 V d.c.	0.084 / 0.1848	VR15S513BV312A
	VR10	5/2	Sol./Spring	External	2~7 / 29~101	-1~7 / -14.5~101	Push only	24 V d.c.	0.061 / 0.1342	VR10S523BV313A
	VR15	5/2	Sol./Spring	External	2~7 / 29~101	-1~7 / -14.5~101	Push only	24 V d.c.	0.084 / 0.1848	VR15S523BV313A
	VR10	5/2	Sol./Spring	External	2~7 / 29~101	-1~7 / -14.5~101	Push only	12 V d.c.	0.061 / 0.1342	VR10S523BV312A
	VR15	5/2	Sol./Spring	External	2~7 / 29~101	-1~7 / -14.5~101	Push only	12 V d.c.	0.084 / 0.1848	VR15S523BV312A

*1) 12 V d.c. valves only for Multipole and CANopen / all solenoids are a 0.45 W energy saving type

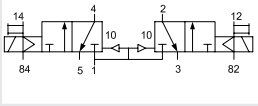
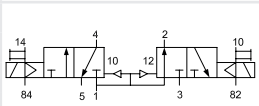
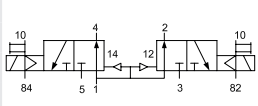
5/3 Single and double solenoid actuated valves

Symbol	Series	Function	Actuation	Pilot Supply	Pilot Pressure (bar / psi)	Operating Pressure (bar / psi)	Manual Override	Voltage *1)	Weight (kg / lbs)	Model PNP
	VR10	5/3	APB	Internal	2~7 / 29~101	2~7 / 29~101	Push only	24 V d.c.	0.071 / 0.1562	VR10S611BV313A
	VR15	5/3	APB	Internal	2~7 / 29~101	2~7 / 29~101	Push only	24 V d.c.	0.100 / 0.220	VR15S611BV313A
	VR10	5/3	APB	Internal	2~7 / 29~101	2~7 / 29~101	Push only	12 V d.c.	0.071 / 0.1562	VR10S611BV312A
	VR15	5/3	APB	Internal	2~7 / 29~101	2~7 / 29~101	Push only	12 V d.c.	0.100 / 0.220	VR15S611BV312A
	VR10	5/3	APB	Extern	2~7 / 29~101	-1~7 / -14.5~101	Push only	24 V d.c.	0.071 / 0.1562	VR10S622BV313A
	VR15	5/3	APB	Extern	2~7 / 29~101	-1~7 / -14.5~101	Push only	24 V d.c.	0.100 / 0.220	VR15S622BV313A
	VR10	5/3	APB	Extern	2~7 / 29~101	-1~7 / -14.5~101	Push only	12 V d.c.	0.071 / 0.1562	VR10S622BV312A
	VR15	5/3	APB	Extern	2~7 / 29~101	-1~7 / -14.5~101	Push only	12 V d.c.	0.100 / 0.220	VR15S622BV312A
	VR10	5/3	COE	Internal	2~7 / 29~101	2~7 / 29~101	Push only	24 V d.c.	0.071 / 0.1562	VR10S711BV313A
	VR15	5/3	COE	Internal	2~7 / 29~101	2~7 / 29~101	Push only	24 V d.c.	0.100 / 0.220	VR15S711BV313A
	VR10	5/3	COE	Internal	2~7 / 29~101	2~7 / 29~101	Push only	12 V d.c.	0.071 / 0.1562	VR10S711BV312A
	VR15	5/3	COE	Internal	2~7 / 29~101	2~7 / 29~101	Push only	12 V d.c.	0.100 / 0.220	VR15S711BV312A
	VR10	5/3	COE	Extern	2~7 / 29~101	-1~7 / -14.5~101	Push only	24 V d.c.	0.071 / 0.1562	VR10S722BV313A
	VR15	5/3	COE	Extern	2~7 / 29~101	-1~7 / -14.5~101	Push only	24 V d.c.	0.100 / 0.220	VR15S722BV313A
	VR10	5/3	COE	Extern	2~7 / 29~101	-1~7 / -14.5~101	Push only	12 V d.c.	0.071 / 0.1562	VR10S722BV312A
	VR15	5/3	COE	Extern	2~7 / 29~101	-1~7 / -14.5~101	Push only	12 V d.c.	0.100 / 0.220	VR15S722BV312A
	VR10	5/3	COP	Internal	2~7 / 29~101	2~7 / 29~101	Push only	24 V d.c.	0.071 / 0.1562	VR10S811BV313A
	VR15	5/3	COP	Internal	2~7 / 29~101	2~7 / 29~101	Push only	24 V d.c.	0.100 / 0.220	VR15S811BV313A
	VR10	5/3	COP	Internal	2~7 / 29~101	2~7 / 29~101	Push only	12 V d.c.	0.071 / 0.1562	VR10S811BV312A
	VR15	5/3	COP	Internal	2~7 / 29~101	2~7 / 29~101	Push only	12 V d.c.	0.100 / 0.220	VR15S811BV312A
	VR10	5/3	COP	Extern	2~7 / 29~101	-1~7 / -14.5~101	Push only	24 V d.c.	0.071 / 0.1562	VR10S822BV313A
	VR15	5/3	COP	Extern	2~7 / 29~101	-1~7 / -14.5~101	Push only	24 V d.c.	0.100 / 0.220	VR15S822BV313A
	VR10	5/3	COP	Extern	2~7 / 29~101	-1~7 / -14.5~101	Push only	12 V d.c.	0.071 / 0.1562	VR10S822BV312A
	VR15	5/3	COP	Extern	2~7 / 29~101	-1~7 / -14.5~101	Push only	12 V d.c.	0.100 / 0.220	VR15S822BV312A

*1) 12V d.c. valves only for Multipole and CANopen / all solenoids are a 0.45 W energy saving type

APB= All Ports Blocked
COE= Centre Open Exhaust
COP= Centre Open Port

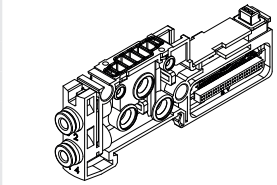
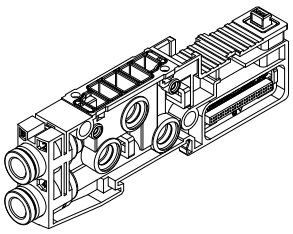
2x 3/2 Double solenoid actuated valves

Symbol	Series	Function	Actuation	Pilot Supply	Pilot Pressure (bar / psi)	Operating Pressure (bar / psi)	Manual Override	Voltage *1)	Weight (kg / lbs)	Model PNP
	VR10	2X3/2	NC/NC	Internal	2~7 / 29~101	2~7 / 29~101	Push only	24 V d.c.	0.069 / 0.1518	VR10SA11BV313A
	VR15	2X3/2	NC/NC	Internal	2~7 / 29~101	2~7 / 29~101	Push only	24 V d.c.	0.092 / 0.2024	VR15SA11BV313A
	VR10	2X3/2	NC/NC	Internal	2~7 / 29~101	2~7 / 29~101	Push only	12 V d.c.	0.069 / 0.1518	VR10SA11BV312A
	VR15	2X3/2	NC/NC	Internal	2~7 / 29~101	2~7 / 29~101	Push only	12 V d.c.	0.092 / 0.2024	VR15SA11BV312A
	VR10	2X3/2	NC/NO	Internal	2~7 / 29~101	2~7 / 29~101	Push only	24 V d.c.	0.069 / 0.1518	VR10SC11BV313A
	VR15	2X3/2	NC/NO	Internal	2~7 / 29~101	2~7 / 29~101	Push only	24 V d.c.	0.092 / 0.2024	VR15SC11BV313A
	VR10	2X3/2	NC/NO	Internal	2~7 / 29~101	2~7 / 29~101	Push only	12 V d.c.	0.069 / 0.1518	VR10SC11BV312A
	VR15	2X3/2	NC/NO	Internal	2~7 / 29~101	2~7 / 29~101	Push only	12 V d.c.	0.092 / 0.2024	VR15SC11BV312A
	VR10	2X3/2	NO/NO	Internal	2~7 / 29~101	2~7 / 29~101	Push only	24 V d.c.	0.069 / 0.1518	VR10SB11BV313A
	VR15	2X3/2	NO/NO	Internal	2~7 / 29~101	2~7 / 29~101	Push only	24 V d.c.	0.092 / 0.2024	VR15SB11BV313A
	VR10	2X3/2	NO/NO	Internal	2~7 / 29~101	2~7 / 29~101	Push only	12 V d.c.	0.069 / 0.1518	VR10SB11BV312A
	VR15	2X3/2	NO/NO	Internal	2~7 / 29~101	2~7 / 29~101	Push only	12 V d.c.	0.092 / 0.2024	VR15SB11BV312A

*1) 12 V d.c. valves only for Multipole and CANopen / all solenoids are a 0.45 W energy saving type

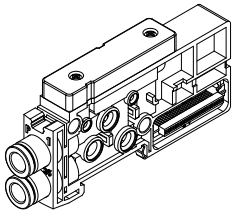
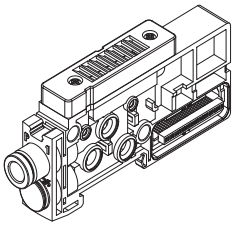
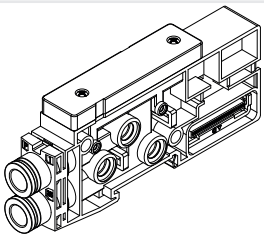
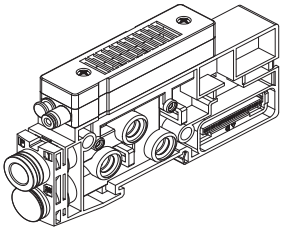
NC= Normally Closed
NO= Normally Open

Sub-bases only

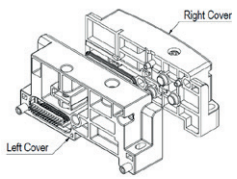
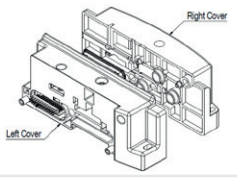
	Series	Port Size	Single / double wiring*	Weight (kg / lbs)	Model
	VR10	Ø4	Single	0.036 / 0.0792	VR107516BM1114
	VR10	Ø4	Double	0.036 / 0.0792	VR107516BM1124
	VR10	Ø6	Single	0.036 / 0.0792	VR107516BM1116
	VR10	Ø6	Double	0.036 / 0.0792	VR107516BM1126
	VR10	Ø5/32"	Single	0.036 / 0.0792	VR107516BM1111
	VR10	Ø5/32"	Double	0.036 / 0.0792	VR107516BM1121
	VR10	Ø1/4"	Single	0.036 / 0.0792	VR107516BM1119
	VR10	Ø1/4"	Double	0.036 / 0.0792	VR107516BM1129
	VR15	Ø4	Single	0.083 / 0.1826	VR157516BM1114
	VR15	Ø4	Double	0.083 / 0.1826	VR157516BM1124
	VR15	Ø6	Single	0.083 / 0.1826	VR157516BM1116
	VR15	Ø6	Double	0.083 / 0.1826	VR157516BM1126
	VR15	Ø8	Single	0.083 / 0.1826	VR157516BM1118
	VR15	Ø8	Double	0.083 / 0.1826	VR157516BM1128
	VR15	Ø5/32"	Single	0.083 / 0.1826	VR157516BM1111
	VR15	Ø5/32"	Double	0.083 / 0.1826	VR157516BM1121
	VR15	Ø1/4"	Single	0.083 / 0.1826	VR157516BM1119
	VR15	Ø1/4"	Double	0.083 / 0.1826	VR157516BM1129
	VR15	Ø5/16"	Single	0.083 / 0.1826	VR157516BM1110
	VR15	Ø5/16"	Double	0.083 / 0.1826	VR157516BM1120

*Sub-bases are available in single and double wired versions. Single wired bases can only be used with single solenoid valves.
Double wired bases can be used with both single solenoid and double solenoid valves

Supply/Exhaust modules only

without silencer	with silencer	Series	Port Size	Pilot Supply	With Silencer	Weight (kg / lbs)	Model
		VR10	Ø8	Internal	Yes	0.071 / 0.1562	VR107516BMY108
		VR10	Ø8	External	Yes	0.091 / 0.2002	VR107516BMY208
		VR10	Ø8	Internal	No	0.071 / 0.1562	VR107516BMN108
		VR10	Ø8	External	No	0.091 / 0.2002	VR107516BMN208
		VR10	Ø5/16"	Internal	Yes	0.071 / 0.1562	VR107516BMY100
		VR10	Ø5/16"	External	Yes	0.091 / 0.2002	VR107516BMY200
		VR10	Ø5/16"	Internal	No	0.071 / 0.1562	VR107516BMN100
		VR10	Ø5/16"	External	No	0.091 / 0.2002	VR107516BMN200
		VR15	Ø10	Internal	Yes	0.105 / 0.231	VR157516BMY10Y
		VR15	Ø10	External	Yes	0.125 / 0.275	VR157516BMY20Y
		VR15	Ø10	Internal	No	0.105 / 0.231	VR157516BMN10Y
		VR15	Ø10	External	No	0.125 / 0.275	VR157516BMN20Y
		VR15	Ø3/8"	Internal	Yes	0.105 / 0.231	VR157516BMY101
		VR15	Ø3/8"	External	Yes	0.125 / 0.275	VR157516BMY201
		VR15	Ø3/8"	Internal	No	0.105 / 0.231	VR157516BMN101
		VR15	Ø3/8"	External	No	0.125 / 0.275	VR157516BMN201

End Plate Only (IP65 Versions)

	Series	Cover Location	Weight (kg /lbs)	Model
	VR10	Right	0.06 / 0.132	VR107516BM0901
	VR10	Left	0.078 / 0.1716	VR107516BM0904
	VR15	Right	0.086 / 0.1892	VR157516BM0901
	VR15	Left	0.096 / 0.2112	VR157516BM0904

VR10 & VR15 Control Modules (IP65 Version)

PROFINET IRT

VR1X7516BM02PN

Weight: 0,223 kg

EtherNet/IP

VR1X7516BM02EP

Weight: 0.224 kg

CANopen

VR1X7516BM02C1 - 12 V d.c.

Weight: 0.221 kg

CANopen

VR1X7516BM02C2 - 24 V d.c.

Weight: 0.221 kg

EtherCAT

VR1X7516BM02EC

Weight: 0.221 kg

IO-Link

VR1X7516BM02IL

Weight: 0.181 kg

Multipole

VR1X7516BM02M6

Weight: 0.128 kg

Industrial Ethernet - Cable and Connectors

Bus cable: 4-pin D-coded M12 - M12

Model	Cable length (m)
NC-124MS-1244SGA	0.5
NC-124MS-1244SG2	2.0
NC-124MS-1244SG5	5.0

Bus cable: 4-pin D-coded M12 - flying lead

Model	Cable length (m)
NC-124MS-00000G2	2.0
NC-124MS-00000G5	5.0

Bus connector RJ45 Wireable

NC-RJ450-0000000

Power cable: 5-pin A-coded M12 - flying lead

Model	Cable length (m)
NC-125FS-00000-5	5.0

IO-Link - Cables

Cable 5-pin A-code M12 - M12

Model	Cable length (m)
NC-125FS-125MS-A	0.6
NC-125FS-125MS-1	1.0
NC-125FS-125MS-2	2.0
NC-125FS-125MS-5	5.0

Cable 5-pin A-code M12 - flying lead

Model	Cable length (m)
NC-125FS-00000-5	5.0

Multipole (IP65) - Cables

D-Sub IP65 Connector Cable

V11569-E##

Insert **01** for 1 m,
03 for 3 m and
05 for 5 m

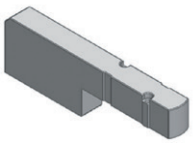
Accessories

Blank Plug Kit (3pcs)

VR**7516AM0400

** Insert **10** for VR10 or
15 for VR15

Blanking Plate



VR**7516AM0300

** Insert **10** for VR10 or
15 for VR15

DIN Rail

VR**7516AM08##

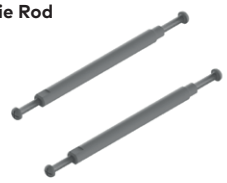
** Insert **10** for VR10 or
15 for VR15
#Insert **06** for 2-6 stations
10 for 7-10 stations
15 for 11-15 stations
20 for 16-20 stations
24 for 21-24 stations

Tie Rod expansion Kit

VR**7516MM07##NA

** Insert **10** for VR10
or **15** for VR15
Insert
MS: ISEM expansion rod
M1: 1 Station modular rod
M2: 2 Stations modular rod

Tie Rod



VR**7516MM07#$

** Insert **10** for VR10 or
15 for VR15
Insert **02...24** for
number of stations.
Insert **05...24** for
number of stations.
$ Insert **E1**=1, **E2** = 2, **E3**=3
and **E4**=4 for number of sup/
exh modules

Fitting Kits

Part Number	Description
VR107516AMFK01	Fitting Kit - VR10/15 External Pilot Base PIFØ4mm
VR107516AMFK02	Fitting Kit - VR10 Sub-Base PIFØ4mm
VR107516AMFK03	Fitting Kit - VR15 Sub-Base PIFØ4mm
VR107516AMFK04	Fitting Kit - VR10 Sub-Base PIFØ6mm
VR107516AMFK05	Fitting Kit - VR15 Sub-Base PIFØ4mm
VR107516AMFK06	Fitting Kit - VR10 ISEM / VR15 Sub-Base PIFØ8mm
VR107516AMFK07	Fitting Kit - VR15 ISEM PIFØ10mm
VR107516AMFK08	Fitting Kit - VR10 Sub-Base PIFØ5/32"
VR107516AMFK09	Fitting Kit - VR10/15 External Pilot Base PIFØ5/32"
VR107516AMFK10	Fitting Kit - VR15 Sub-Base PIFØ5/32"
VR107516AMFK11	Fitting Kit - VR10 Sub-Base PIFØ1/4"
VR107516AMFK12	Fitting Kit - VR15 Sub-Base PIFØ1/4"
VR107516AMFK13	Fitting Kit - VR10 ISEM / VR15 Sub-Base PIFØ5/16"
VR107516AMFK14	Fitting Kit - VR15 ISEM PIFØ3/8"

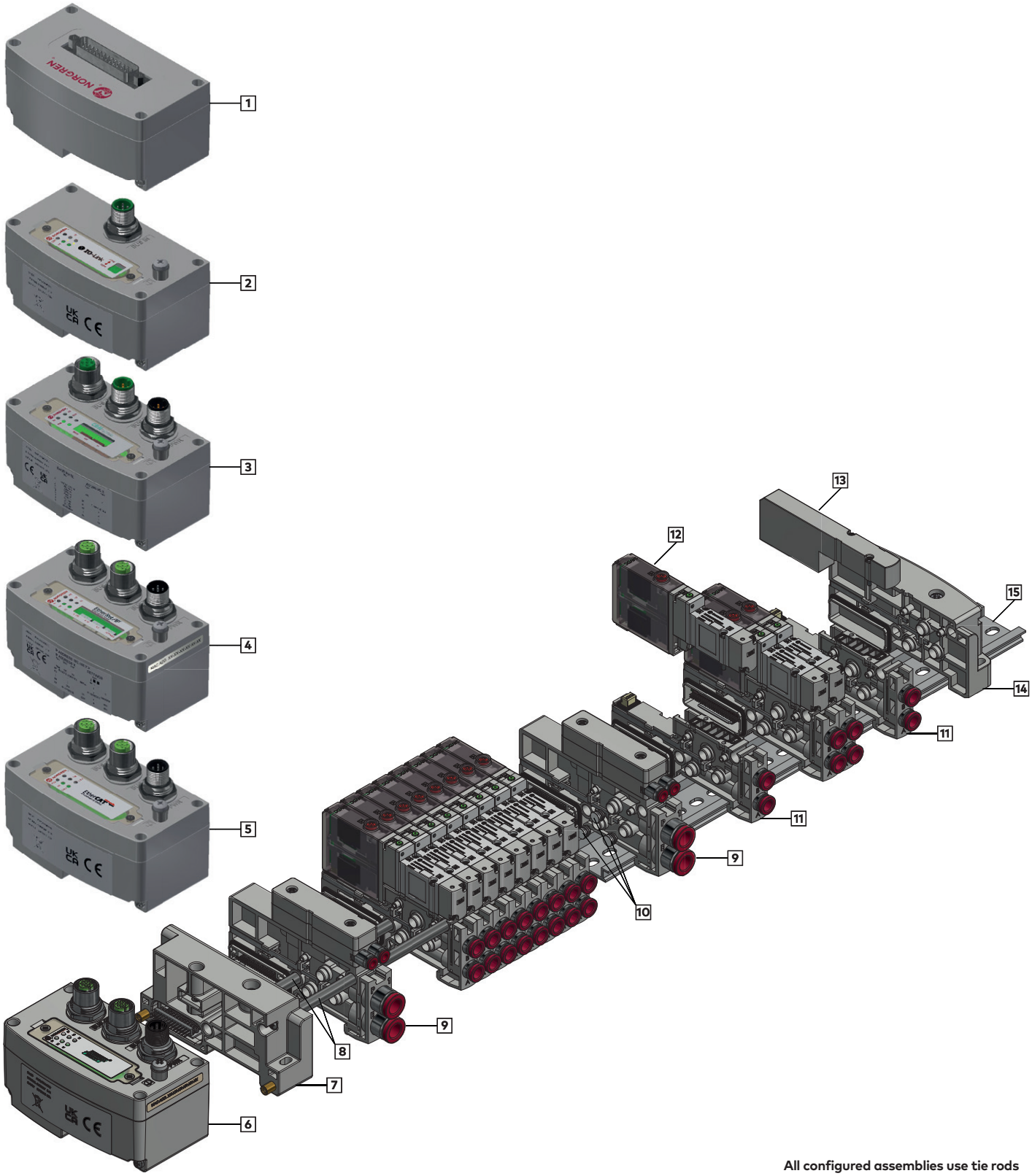
* Fitting kits are supplied with 10-off fittings and 7-off locking pins

Mounting Kits

Part Number	Description
VR107516AMMK01	Mounting Kit - Valve - 10mm
VR157516AMMK01	Mounting Kit - Valve - 15mm
VR107516AMMK02	Mounting Kit - Blank - 10mm
VR157516AMMK02	Mounting Kit - Blank - 15mm
VR107516AMMK03	Mounting Kit ISEM Int. - Blanking - 10mm
VR107516AMMK04	Mounting Kit ISEM Int. - Silencer - 10mm
VR107516AMMK06	Mounting Kit ISEM Ext. - Silencer - 10mm
VR107516AMMK07	Mounting Kit ISEM Ext. - Blanking - 10mm
VR157516AMMK03	Mounting Kit ISEM Int. - Blanking - 15mm
VR157516AMMK04	Mounting Kit ISEM Int. - Silencer - 15mm
VR157516AMMK06	Mounting Kit ISEM Ext. - Silencer - 15mm
VR157516AMMK07	Mounting Kit ISEM Ext. - Blanking - 15mm

* Mounting kits are supplied with the required screws and sealings

Exploded view (IP65)

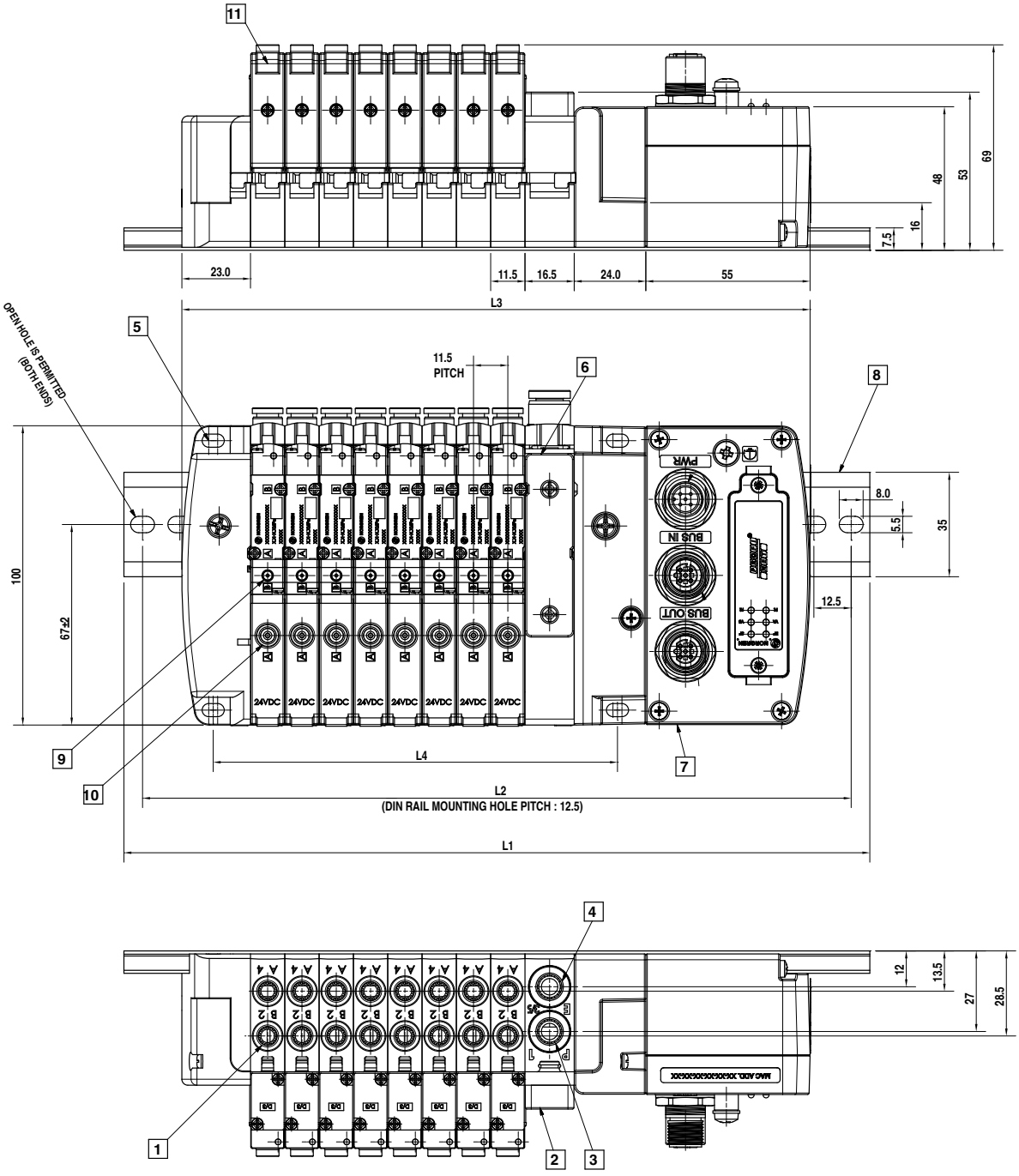


All configured assemblies use tie rods

1 Multipole control module
2 IO-Link control module
3 CANopen control module
4 EtherNet/IP control module
5 EtherCAT control module
6 PROFINET control module
7 Left Endplate (IP65)
8 Tie Rods
9 Sup/Exh module
10 Blank Plugs
11 Sub-Base
12 Valve slice
13 Blanking Plate
14 Right Endplate (IP65)
15 DIN Rail

VR10 Series (Valve Island) Internal Pilot without Silencer (IP65 Version)

Dimensions in mm
Projection/First angle



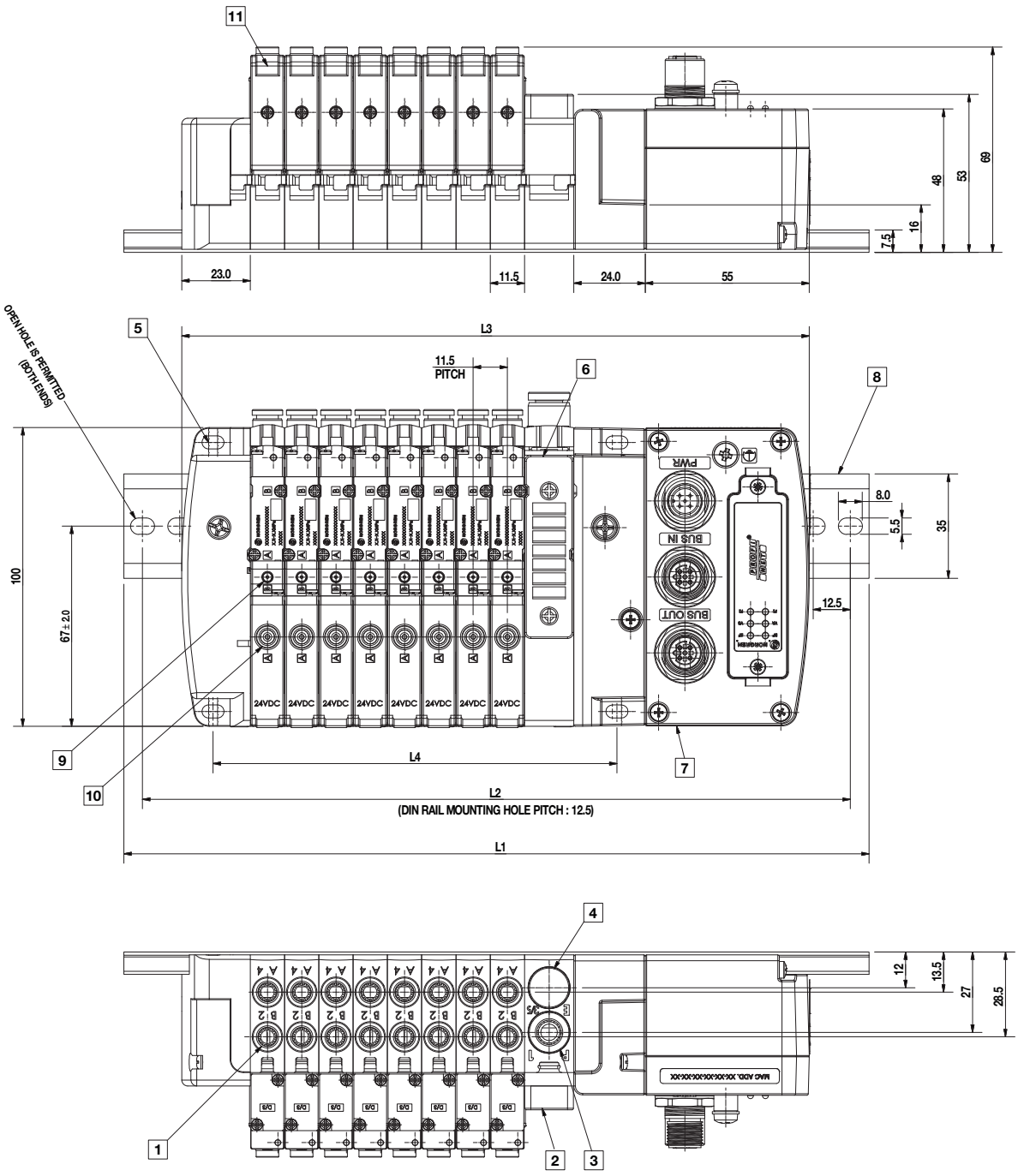
1 Outlet Port: PIF for tube O.D 4, O.D 6, O.D 5/32", O.D 1/4"
2 Sup/Exh module
3 Supply Port: PIF for tube O.D 8, O.D 5/16"
4 Exhaust Port: PIF for tube O.D 8, O.D 5/16"
5 Mounting 4x M4
6 Exhaust Port: Blank Plate
7 Control module
8 DIN Rail
9 Manual override (Port 2)
10 Manual override (Port 4)
11 LED

N: Stations	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
L1 (mm)	200					250				300					387.5					437.5			
L2 (mm)	187.5					237.5				287.5					375					425			
L3 (mm)	141.5	153.0	164.5	176.0	187.5	199.0	210.5	222.0	233.5	261.5	273.0	284.5	296.0	307.5	319.0	330.5	342.0	353.5	365.0	376.5	388.0	399.5	411.0
L4 (mm)	66.5	78.0	89.5	101.0	112.5	124.0	135.5	147.0	158.5	186.5	198.0	209.5	221.0	232.5	244.0	255.5	267.0	278.5	290.0	301.5	313.0	324.5	336.0

*2~10 stations: one Sup/Exh Module is required. 11~24 stations: two Sup/Exh Modules are recommended.

VR10 Series (Valve Island) Internal Pilot with Silencer (IP65 Versions)

Dimensions in mm
Projection/First angle



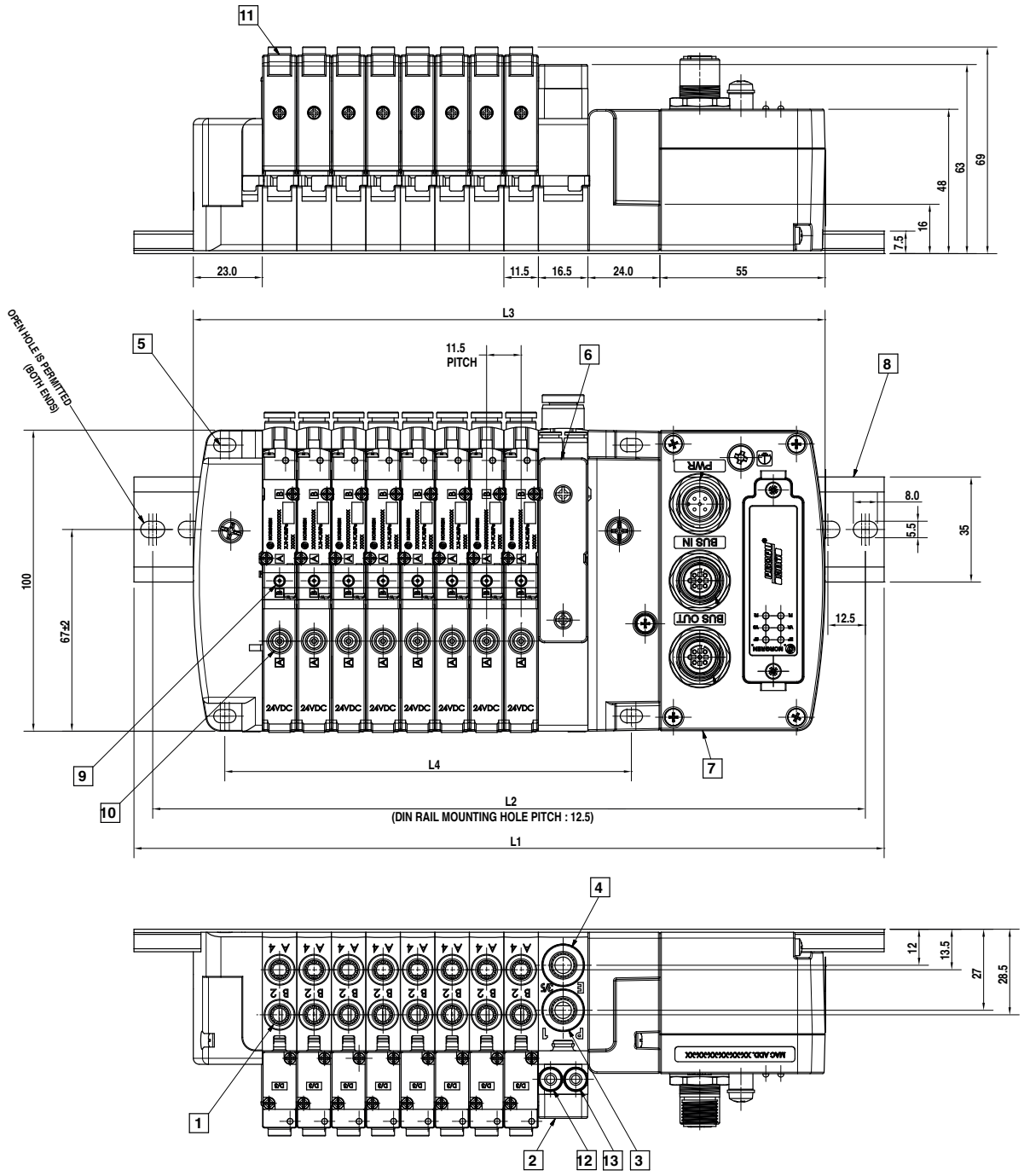
1 Outlet Port: PIF for tube O.D 4, O.D 6, O.D 5/32", O.D 1/4"
2 Sup/exh module
3 Supply Port: PIF for tube O.D 8, O.D 5/16"
4 Plug
5 Mounting 4x M4
6 Exhaust Port: Silencer Plate
7 Control module
8 DIN Rail
9 Manual override (Port 2)
10 Manual override (Port 4)
11 LED

N: Stations	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
L1 (mm)	200					250				300					387.5					437.5			
L2 (mm)	187.5					237.5				287.5					375					425			
L3 (mm)	141.5	153.0	164.5	176.0	187.5	199.0	210.5	222.0	233.5	261.5	273.0	284.5	296.0	307.5	319.0	330.5	342.0	353.5	365.0	376.5	388.0	399.5	411.0
L4 (mm)	66.5	78.0	89.5	101.0	112.5	124.0	135.5	147.0	158.5	186.5	198.0	209.5	221.0	232.5	244.0	255.5	267.0	278.5	290.0	301.5	313.0	324.5	336.0

*2~10 stations: one Sup/Exh Module is required. 11~24 stations: two Sup/Exh Modules are recommended.

VR10 Series (Valve Island) External Pilot without Silencer (IP65 Versions)

Dimensions in mm
Projection/First angle



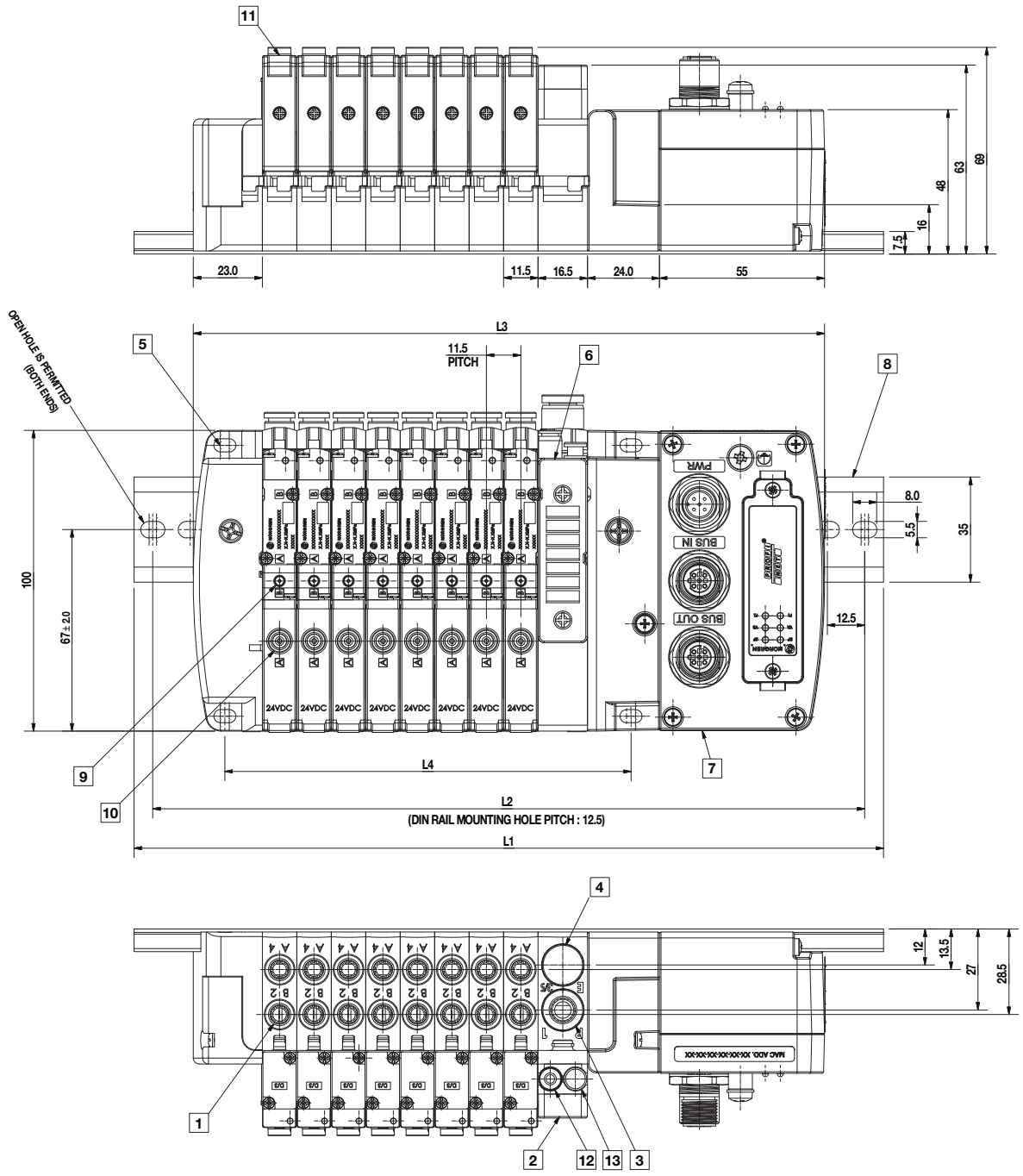
1 Outlet Port: PIF for tube O.D 4, O.D 6, O.D 5/32", O.D 1/4"
2 Sup/exh module
3 Supply Port: PIF for tube O.D 8, O.D 5/16"
4 Exhaust Port: PIF for tube O.D 8, O.D 5/16"
5 Mounting 4x M4
6 Exhaust Port: Blank Plate
7 Control module
8 DIN Rail
9 Manual override (Port 2)
10 Manual override (Port 4)
11 LED
12 Supply Port of external pilot: PIF for tube O.D. 4, O.D. 5/32"
13 Exhaust Port of external pilot: PIF for tube O.D. 4, O.D. 5/32"

N: Stations	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
L1 (mm)	200					250				300					387.5					437.5			
L2 (mm)	187.5					237.5				287.5					375					425			
L3 (mm)	141.5	153.0	164.5	176.0	187.5	199.0	210.5	222.0	233.5	261.5	273.0	284.5	296.0	307.5	319.0	330.5	342.0	353.5	365.0	376.5	388.0	399.5	411.0
L4 (mm)	66.5	78.0	89.5	101.0	112.5	124.0	135.5	147.0	158.5	186.5	198.0	209.5	221.0	232.5	244.0	255.5	267.0	278.5	290.0	301.5	313.0	324.5	336.0

*2~10 stations: one Sup/Exh Module is required. 11~24 stations: two Sup/Exh Modules are recommended.

VR10 Series (Valve Island) External Pilot with Silencer (IP65 Versions)

Dimensions in mm
Projection/First angle



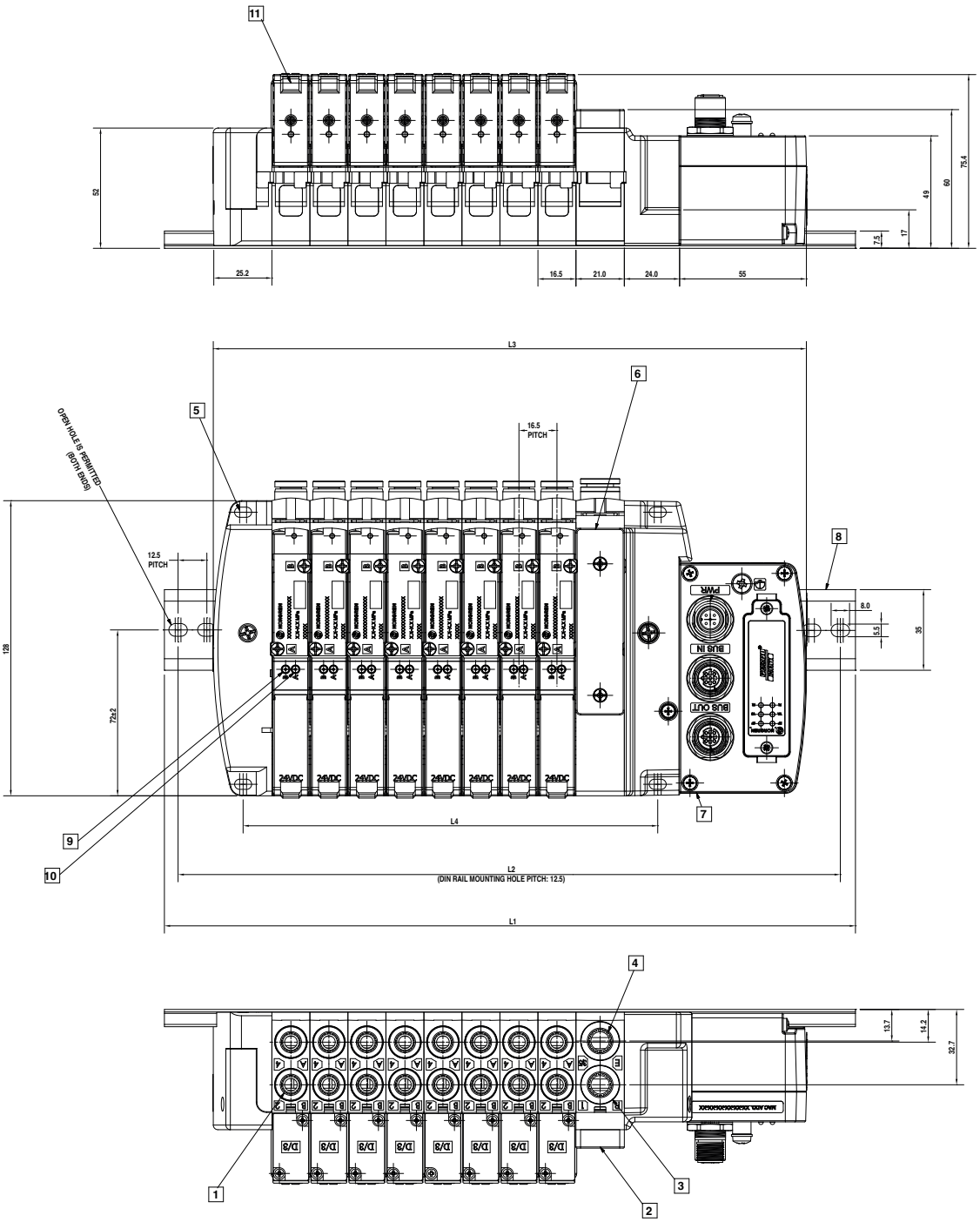
1 Outlet Port: PIF for tube O.D 4, O.D 6, O.D 5/32", O.D 1/4"
2 Sup/exh module
3 Supply Port: PIF for tube O.D 8, O.D 5/16"
4 Plug
5 Mounting 4x M4
6 Exhaust Port: Silencer Plate
7 Control module
8 DIN Rail
9 Manual override (Port 2)
10 Manual override (Port 4)
11 LED
12 Supply Port of external pilot: pif for tube O.D. 4, O.D. 5/32
13 Plug

N: Stations	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
L1 (mm)	200					250				300					387.5					437.5			
L2 (mm)	187.5					237.5				287.5					375					425			
L3 (mm)	141.5	153.0	164.5	176.0	187.5	199.0	210.5	222.0	233.5	261.5	273.0	284.5	296.0	307.5	319.0	330.5	342.0	353.5	365.0	376.5	388.0	399.5	411.0
L4 (mm)	66.5	78.0	89.5	101.0	112.5	124.0	135.5	147.0	158.5	186.5	198.0	209.5	221.0	232.5	244.0	255.5	267.0	278.5	290.0	301.5	313.0	324.5	336.0

*2~10 stations: one Sup/Exh Module is required. 11~24 stations: two Sup/Exh Modules are recommended.

VR15 Series (Valve Island) Internal Pilot without Silencer (IP65 Version)

Dimensions in mm
Projection/First angle



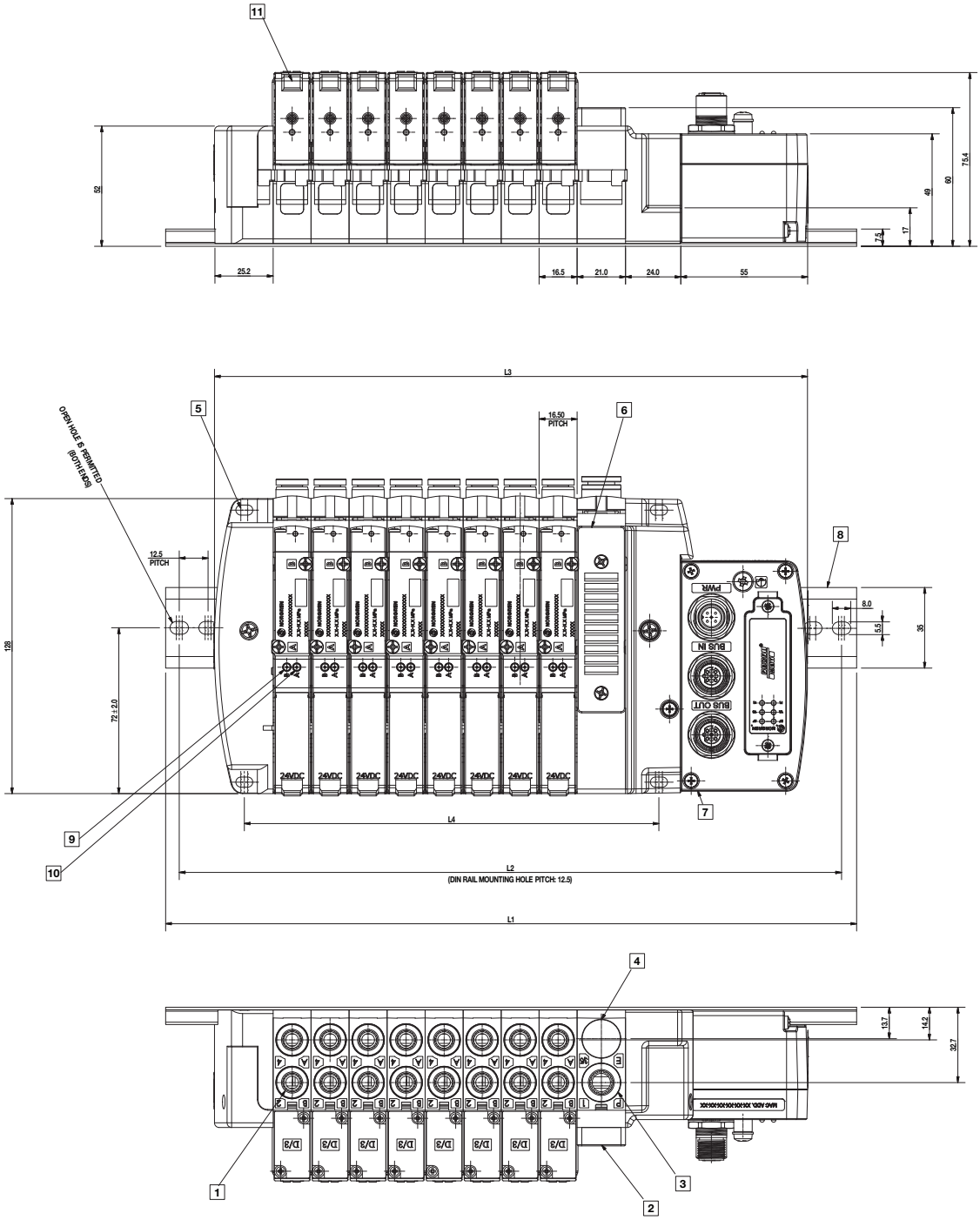
1 Outlet Port: PIF for tube O.D 4, O.D 6, O.D 8 O.D 5/32", O.D 1/4"
2 Sup/Exh module
3 Supply Port: PIF for tube O.D 10, O.D 3/8"
4 Exhaust Port: PIF for tube O.D 10, O.D 3/8"
5 Mounting 4x M4
6 Exhaust Port: Blank Plate
7 Control module
8 DIN Rail
9 Manual override (Port 2)
10 Manual override (Port 4)
11 LED

N: Stations	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
L1 (mm)	250					300				400					500					587			
L2 (mm)	237.5					287.5				387.5					487.5					574.5			
L3 (mm)	158.2	174.7	191.2	207.7	224.2	240.7	257.2	273.7	290.2	327.7	344.2	360.7	377.2	393.7	410.2	426.7	443.2	459.7	476.2	492.7	509.2	525.7	542.2
L4 (mm)	81.0	97.5	114.0	130.5	147.0	163.5	180.0	196.5	213.0	250.5	267.0	283.5	300.0	316.5	333.0	349.5	366.0	382.5	399.0	415.5	432.0	448.5	465.0

*2~10 stations: one Sup/Exh Module is required. 11~24 stations: two Sup/Exh Modules are recommended.

VR15 Series (Valve Island) Internal Pilot with Silencer (IP65 Version)

Dimensions in mm
Projection/First angle



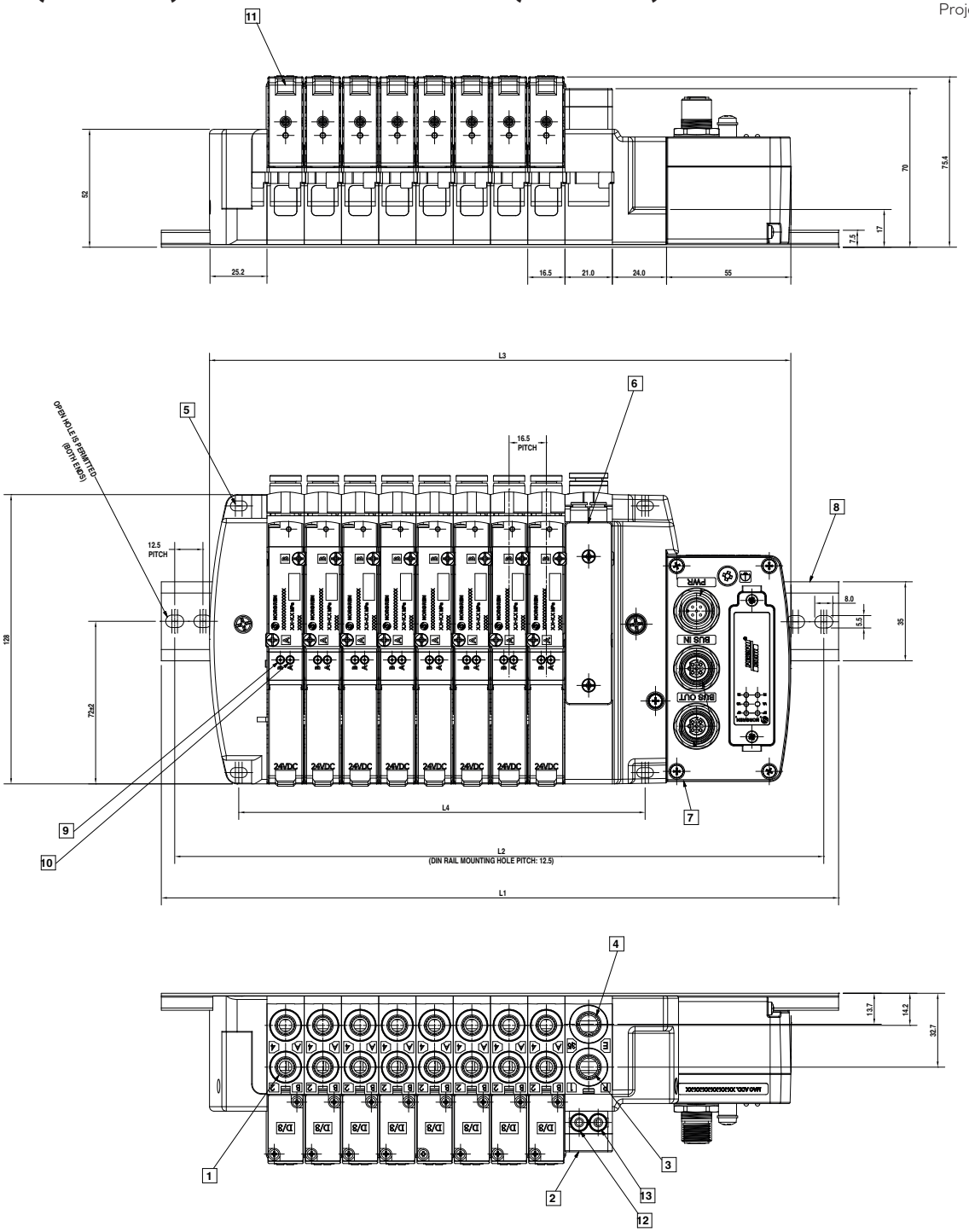
1 Outlet Port: PIF for tube O.D 4, O.D 6, 8 O.D, O.D 5/32", O.D 1/4"
2 Sup/exh module
3 Supply Port: PIF for tube O.D 10, O.D 3/8"
4 Plug of exhaust
5 Mounting 4x M4
6 Exhaust Port: Silencer Plate
7 Control module
8 DIN Rail
9 Manual override (Port 2)
10 Manual override (Port 4)
11 LED

N: Stations	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
L1 (mm)	250					300				400					500					587			
L2 (mm)	237.5					287.5				387.5					487.5					574.5			
L3 (mm)	158.2	174.7	191.2	207.7	224.2	240.7	257.2	273.7	290.2	327.7	344.2	360.7	377.2	393.7	410.2	426.7	443.2	459.7	476.2	492.7	509.2	525.7	542.2
L4 (mm)	81.0	97.5	114.0	130.5	147.0	163.5	180.0	196.5	213.0	250.5	267.0	283.5	300.0	316.5	333.0	349.5	366.0	382.5	399.0	415.5	432.0	448.5	465.0

*2~10 stations: one Sup/Exh Module is required. 11~24 stations: two Sup/Exh Modules are recommended.

VR15 Series (Valve Island) External Pilot without Silencer (IP65 Version)

Dimensions in mm
Projection/First angle



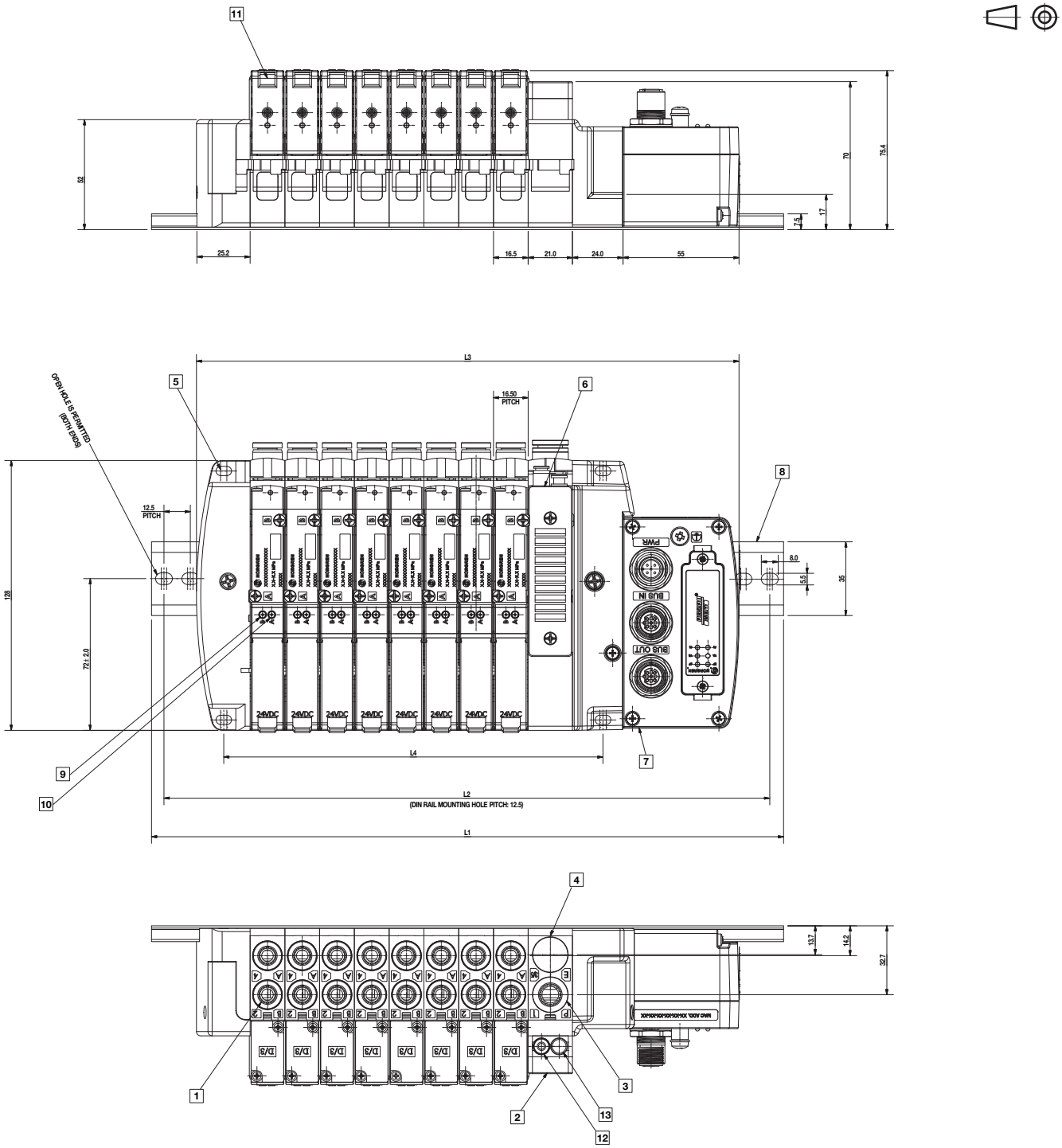
1 Outlet Port: PIF for tube O.D 4, O.D 6, O.D 8 O.D 5/32", O.D 1/4"
2 Sup/Exh module
3 Supply Port: PIF for tube O.D 10, O.D 3/8"
4 Exhaust Port: PIF for tube O.D 10, O.D 3/8"
5 Mounting 4x M4
6 Exhaust Port: Blank Plate
7 Control module
8 DIN Rail
9 Manual override (Port 2)
10 Manual override (Port 4)
11 LED
12 Supply Port of external pilot: PIF for tube O.D. 4, O.D. 5/32"
13 Exhaust Port of external pilot: PIF for tube O.D. 4, O.D. 5/32"

N: Stations	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
L1 (mm)	250					300				400					500					587			
L2 (mm)	237.5					287.5				387.5					487.5					574.5			
L3 (mm)	158.2	174.7	191.2	207.7	224.2	240.7	257.2	273.7	290.2	327.7	344.2	360.7	377.2	393.7	410.2	426.7	443.2	459.7	476.2	492.7	509.2	525.7	542.2
L4 (mm)	81.0	97.5	114.0	130.5	147.0	163.5	180.0	196.5	213.0	250.5	267.0	283.5	300.0	316.5	333.0	349.5	366.0	382.5	399.0	415.5	432.0	448.5	465.0

*2~10 stations: one Sup/Exh Module is required. 11~24 stations: two Sup/Exh Modules are recommended.

VR15 Series (Valve Island) External Pilot with Silencer (IP65 Version)

Dimensions in mm
Projection/First angle



1 Outlet Port: PIF for tube O.D 4, O.D 6, 8 O.D, O.D 5/32", O.D 1/4"
2 Sup/exh module
3 Supply Port: PIF for tube O.D 10, O.D 3/8"
4 Plug
5 Mounting 4x M4
6 Exhaust Port: Silencer Plate
7 Control module
8 DIN Rail
9 Manual override (Port 2)
10 Manual override (Port 4)
11 LED
12 Supply Port of external pilot: PIF for tube O.D. 4, O.D. 5/32"
13 Plug

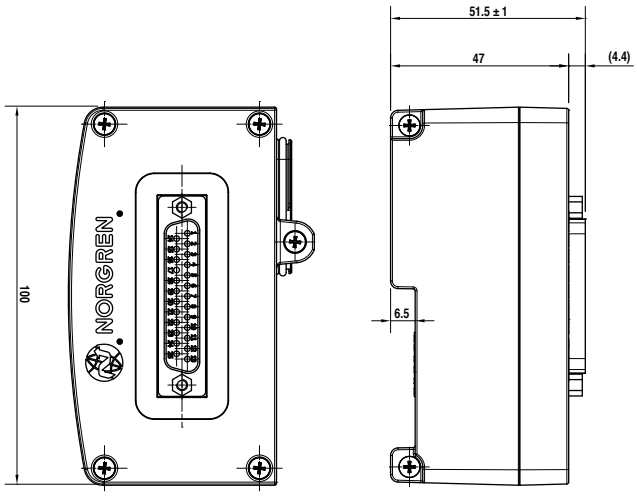
N: Stations	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
L1 (mm)	250					300				400					500					587			
L2 (mm)	237.5					287.5				387.5					487.5					574.5			
L3 (mm)	158.2	174.7	191.2	207.7	224.2	240.7	257.2	273.7	290.2	327.7	344.2	360.7	377.2	393.7	410.2	426.7	443.2	459.7	476.2	492.7	509.2	525.7	542.2
L4 (mm)	81.0	97.5	114.0	130.5	147.0	163.5	180.0	196.5	213.0	250.5	267.0	283.5	300.0	316.5	333.0	349.5	366.0	382.5	399.0	415.5	432.0	448.5	465.0

*2~10 stations: one Sup/Exh Module is required. 11~24 stations: two Sup/Exh Modules are recommended.

VR10 and VR15 Control Modules (IP65 Version)

Dimensions in mm
Projection/First angle

Multipole:
Connector: 1 x D-Sub 25-pin



D-Sub connector wiring

Pin no.	Wire colour	Solenoid	Pilot	Station
1	White	Solenoid 1-a	14	1
2	Brown	Solenoid 2-a	14	2
3	Green	Solenoid 3-a	14	3
4	Yellow	Solenoid 4-a	14	4
5	Grey	Solenoid 5-a	14	5
6	Pink	Solenoid 6-a	14	6
7	Blue	Solenoid 7-a	14	7
8	Red	Solenoid 8-a	14	8
9	Black	Solenoid 9-a	14	9
10	Violet	Solenoid 10-a	14	10
11	Grey/Pink	Solenoid 11-a	14	11
12	Red/Blue	Solenoid 12-a	14	12
13	White/Green	Common	--	--
14	Brown/Green	Solenoid 1-b	12	1
15	White/Yellow	Solenoid 2-b	12	2
16	Yellow/Brown	Solenoid 3-b	12	3
17	White/Grey	Solenoid 4-b	12	4
18	Grey/Brown	Solenoid 5-b	12	5
19	White/Pink	Solenoid 6-b	12	6
20	Pink/Brown	Solenoid 7-b	12	7
21	White/Blue	Solenoid 8-b	12	8
22	Brown/Blue	Solenoid 9-b	12	9
23	White/Red	Solenoid 10-b	12	10
24	Brown/Red	Solenoid 11-b	12	11
25	White/Black	Solenoid 12-b	12	12

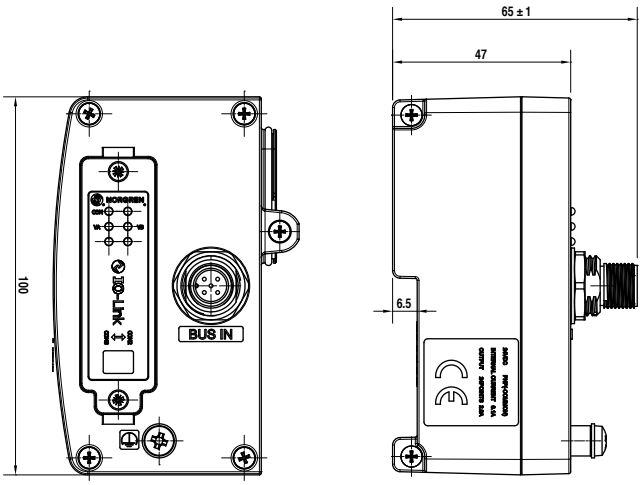
* This table is only applicable to the D-Sub cables that NORGREN supplies, IP65 version. Cable part numbers V11569-E01, V11569-E03 and V11569-E05.

* The table indicates corresponding relation between pins, solenoids, pilots and stations based on configuration (12 stations, double solenoids) shown in table.

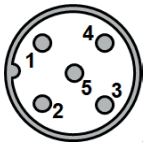
Valve islands exceeding 12 stations please refer to the Installation & Maintenance for Pin-Out

IO-Link (Port Class B):
Connector: 1 x M12 5-pin

IO-Link



Connector: M12 5-pin A-coded

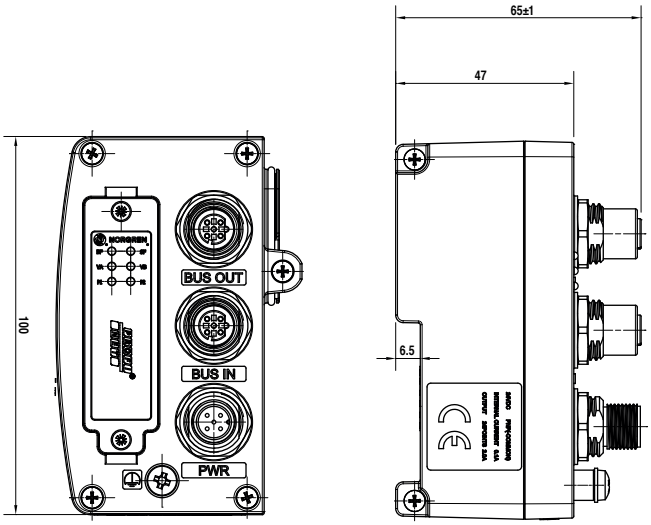
Male	Pin no.	Function		Tolerance	Max. current
	1	L+	(VB+) 24 V electronics power supply	+/- 10 %	max. 100 mA
	2	2L+	(VA+) 24 V valves power supply	+10 % / -5 %	n x 40 mA
	3	L-	(VB-) 0 V electronics power supply		
	4	C/Q	IO-Link communication		
	5	2M	(VA-) 0 V valves power supply		

n = number of energized solenoids

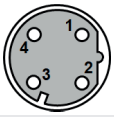
VR10 and VR15 Control Modules (IP65 Version)

Dimensions in mm
Projection/First angle

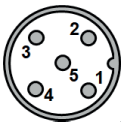
Industrial Ethernet protocol: PROFINET IRT
Connector: 2 x M12 4-pin / 1 x M12 5-pin



Bus connector: M12 4-pin D-coded

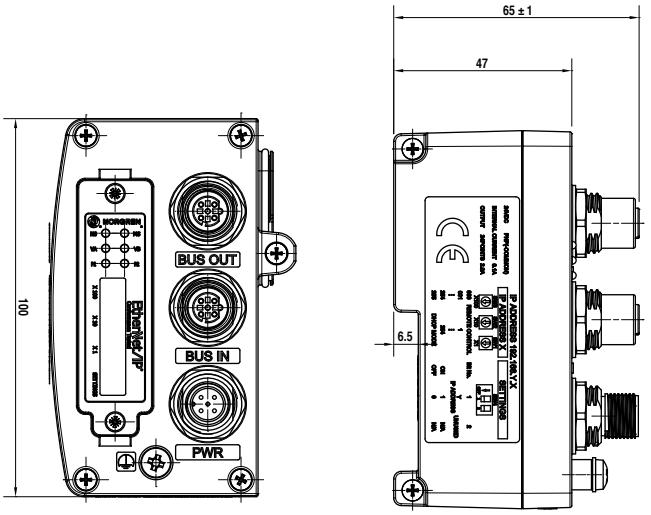
Female	Pin no.	Function
	1	Transmission data + (TD +)
	2	Receive data + (RD+)
	3	Transmission data - (TD-)
	4	Receive data - (RD-)

Power connector: M12 5-pin A-coded

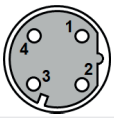
Male	Pin no.	Function	Tolerance	Max. current
	1	L1 (VB+) 24 V electronics power supply	+/- 10 %	max. 100 mA
	2	N2 (VA-) 0 V valves power supply	–	–
	3	N1 (VB-) 0 V electronics power supply	–	–
	4	L2 (VA+) 24 V valves power supply	10 % +10 % / -5 %	n x 40 mA
	5	FE (functional earth)		

(n = number of switched valves)

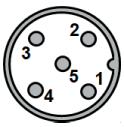
Industrial Ethernet protocol: EtherNet/IP
Connector: 2 x M12 4-pin / 1 x M12 5-pin



Bus connector: M12 4-pin D-coded

Female	Pin no.	Function
	1	Transmission data + (TD +)
	2	Receive data + (RD+)
	3	Transmission data - (TD-)
	4	Receive data - (RD-)

Power connector: M12 5-pin A-coded

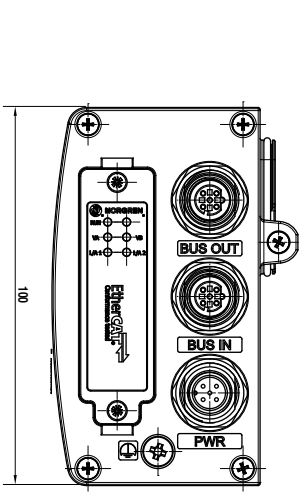
Male	Pin no.	Function	Tolerance	Max. current
	1	L1 (VB+) 24 V electronics power supply	+/- 10 %	max. 100 mA
	2	N2 (VA-) 0 V valves power supply	–	–
	3	N1 (VB-) 0 V electronics power supply	–	–
	4	L2 (VA+) 24 V valves power supply	10 % +10 %/-5 %	n x 40 mA
	5	FE (functional earth)		

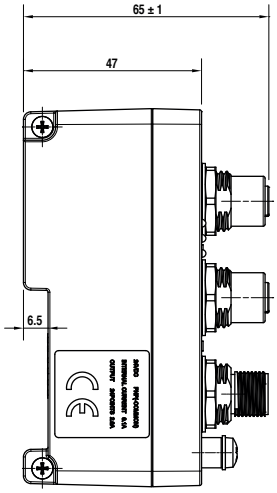
(n = number of switched valves)

VR10 and VR15 Control Modules (IP65 Version)

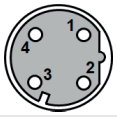
Dimensions in mm
Projection/First angle

Industrial Ethernet protocol: EtherCAT
Connector: 2 x M12 4-pin / 1 x M12 5-pin

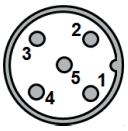




Bus connector: M12 4-pin D-coded

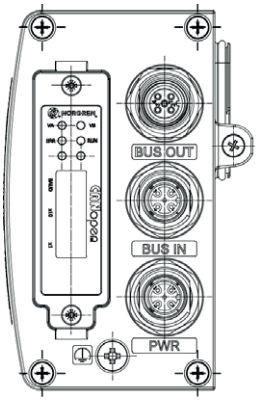
Female	Pin no.	Function
	1	Transmission data + (TD +)
	2	Receive data + (RD+)
	3	Transmission data - (TD-)
	4	Receive data - (RD-)

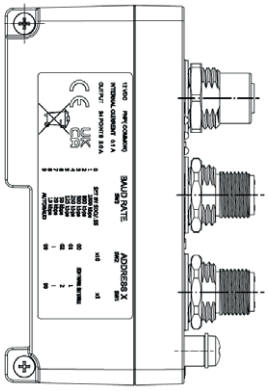
Power connector: M12 5-pin A-coded

Male	Pin no.	Function	Tolerance	Max. current
	1	L1 (VB+) 24 V electronics power supply	+/- 10 %	max. 100 mA
	2	N2 (VA-) 0 V valves power supply	–	–
	3	N1 (VB-) 0 V electronics power supply	–	–
	4	L2 (VA+) 24 V valves power supply	10 % +10 %/-5 %	n x 40 mA
	5	FE (functional earth)		

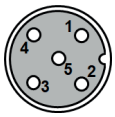
(n = number of switched valves)

Fieldbus protocol: CANopen
Connector: 3 x M12 5-pin

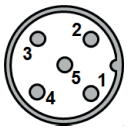




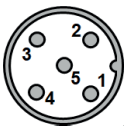
Bus out connector: M12 5-pin A-coded

Female	Pin no.	Function
	1	Shield
	2	-
	3	Ground
	4	CAN_H
	5	CAN_L

Bus in connector: M12 5-pin A-coded

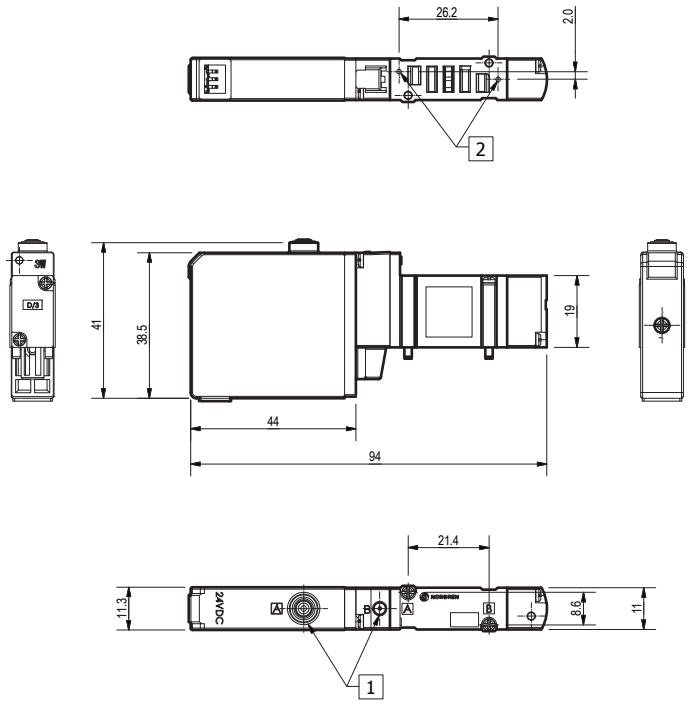
Male	Pin no.	Function
	1	Shield
	2	-
	3	Ground
	4	CAN_H
	5	CAN_L

Power connector: M12 5-pin A-coded

Male	Pin no.	Function	Tolerance	Max. current
	1	L1 (VB+) 24 V electronics power supply	+/- 10 %	max. 100 mA
	2	N2 (VA-) 0 V valves power supply	–	–
	3	N1 (VB-) 0 V electronics power supply	–	–
	4	L2 (VA+) 24 V valves power supply	10 % +10 %/-5 %	n x 40 mA
	5	FE (functional earth)		

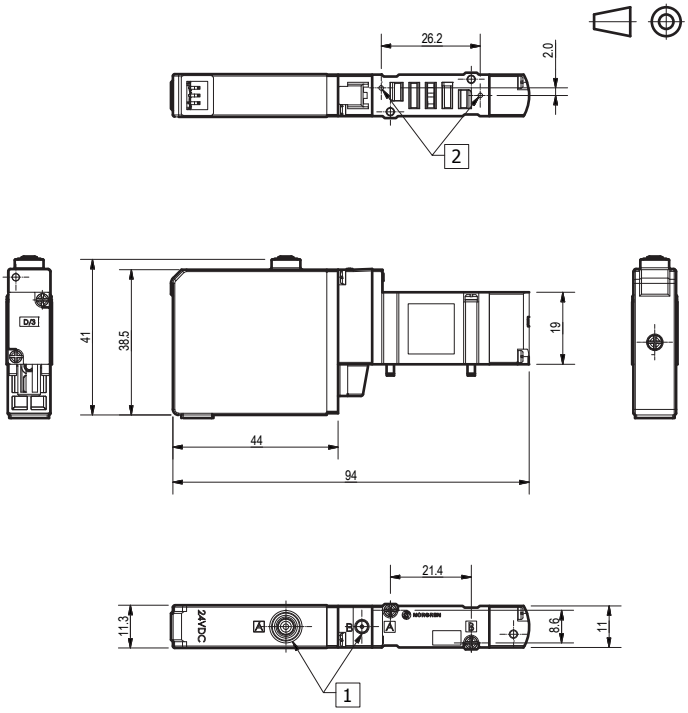
(n = number of switched valves)

VR10 Series (Valve) 2x3/2

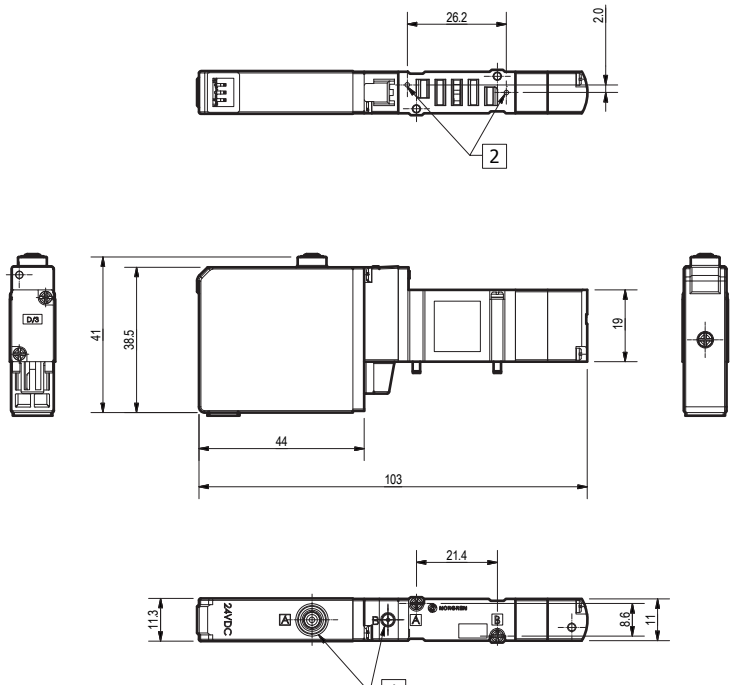


VR10 Series (Valve) 5/2

Dimensions in mm
Projection/First angle



VR10 Series (Valve) 5/3

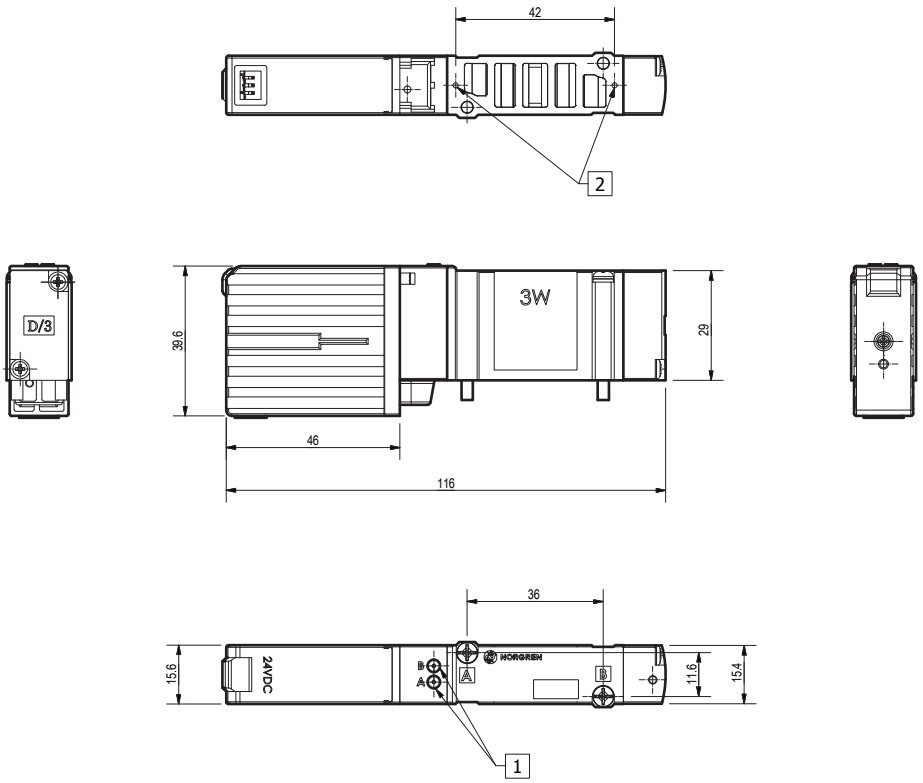


1 Manual override

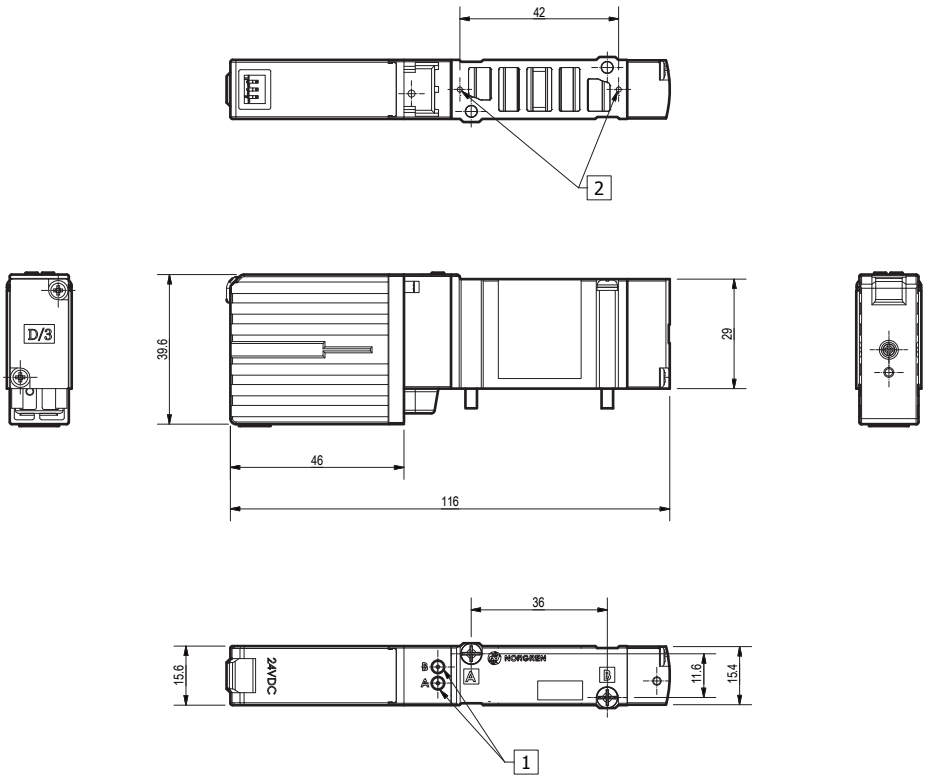
2 Pilot supply holes

VR15 Series (Valve) 2x3/2

Dimensions in mm
Projection/First angle



VR15 Series (Valve) 5/2

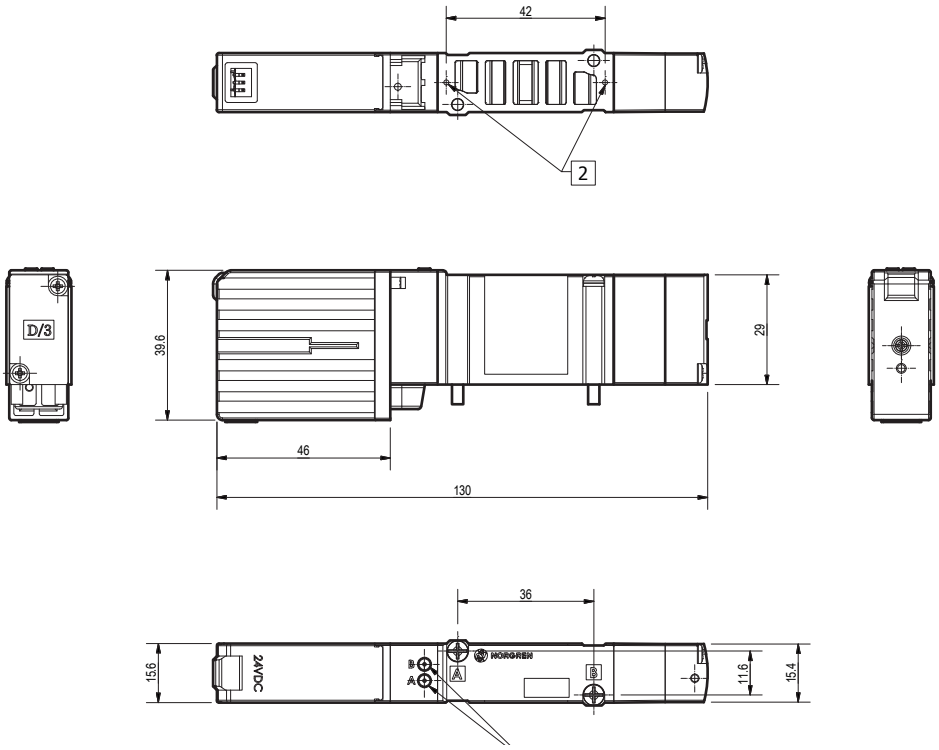


1 Manual override

2 Pilot supply holes

VR15 Series (Valve) 5/3

Dimensions in mm
Projection/First angle



1 Manual override

2 Pilot supply holes

Option selector - valve slices

VR★★S★★★BV3★3A

Series	Substitute
VR10	10
VR15	15
Spool Type	**Substitute**
Softseal Dynamic	S
Function	**Substitute**
5/2	5
5/3 APB	6
5/3 COE	7
5/3 COP	8
2x3/2 NC/NC*	A
2x3/2 NO/NO*	B
2x3/2 NC/NO*	C
Operator 14	**Substitute**
Solenoid Internal Pilot	1
Solenoid External Pilot	2

* Internal Pilot Only

Connection	Substitute
Plug-in	A
Voltage	**Substitute**
12 V d.c. *1)	2
24 V d.c.	3
Electrical	**Substitute**
Common Positive (NPN) *2)	5
Common Negative (PNP)	1
Override	**Substitute**
Push only	3
Type	**Substitute**
Valve	V
Operator 12	**Substitute**
Solenoid Internal Pilot	1
Solenoid External Pilot	2
Air Spring Return	3

*1) only for Multipole and CANopen
*2) only for Multipole

Option selector - blank plate

VR★★7516 A M 0300

Series	Substitute
VR10	10
VR15	15
Type	**Substitute**
Component	7516
Standard	A

Option	Substitute
Blank Plate	0300
Type	**Substitute**
Manifold	M

Option selector - Sub-base

VR★★7516 B M 11 ★ ★

Series	Substitute
VR10	10
VR15	15
Type	**Substitute**
Component	7516
Type	**Substitute**
Manifold	M
Option	**Substitute**
Sub-base	11
Base Style	**Substitute**
Single Wiring	1
Double Wiring	2

Fitting Size		Substitute
4mm PIF	VR10	4
6mm PIF	VR10	6
5/32" PIF	VR10	1
1/4" PIF	VR10	9
4mm PIF	VR15	4
6mm PIF	VR15	6
8mm PIF	VR15	8
5/32" PIF	VR15	1
1/4" PIF	VR15	9
5/16" PIF	VR15	0

Option selector - End Plate IP65

VR★★7516 B M ★ ★ ★★

Series	Substitute
VR10	10
VR15	15
Type	**Substitute**
Component	7516
IP Rating	**Substitute**
IP65	B

Base Style	Substitute
End Plate (Right Side)	01
End Plate (Left Side)	04
Option	**Substitute**
End Plate	09
Type	**Substitute**
Manifold	M

Warning: For IP65 with silencers option, silencers are not recommended in wash down or very dusty applications.

Option selector - Supply/ Exhaust Module

VR★★7516 B M ★ ★ 0 ★

Series	Substitute
VR10	10
VR15	15
Type	**Substitute**
Component	7516
Type	**Substitute**
Manifold	M

Fitting Size		Substitute
8mm PIF	VR10	8
5/16" PIF	VR10	0
10mm PIF	VR15	Y
3/8" PIF	VR15	1
Base Style		**Substitute**
Internal Pilot Base		1
External Pilot Base		2
Silencer Incorporated		**Substitute**
No		N
Yes		Y

Option selector - Tie Rod

VR★★7516 M M 07 ★★ ★★

Series	Substitute
VR10	10
VR15	15
Type	**Substitute**
Component	7516
Option	**Substitute**
Modular	M
Type	**Substitute**
Manifold	M
Component Type	**Substitute**
Tie-rod Assembly	07

Number of Supply/ Exhaust Modules Used	Substitute
1 Supply/Exhaust Module	E1
2 Supply/Exhaust Module	E2
3 Supply/Exhaust Module	E3
4 Supply/Exhaust Module	E4
Number of Stations	**Substitute**
2 stations	02
3 stations	03
4 stations	04
5 stations	05
6 stations	06
7 stations	07
8 stations	08
9 stations	09
10 stations	10
11 stations	11
12 stations	12
13 stations	13
14 stations	14
15 stations	15
16 stations	16
17 stations	17
18 stations	18
19 stations	19
20 stations	20
21 stations	21
22 stations	22
23 stations	23
24 stations	24

Option Selector - DIN Rail

VR★★7516 A M 08 ★★

Series	Substitute
VR10	**10**
VR15	**15**
Type	**Substitute**
Component	**7516**
Option	**Substitute**
Standard	**A**
Type	**Substitute**
Manifold	**M**
Component Type	**Substitute**
DIN Rail	**08**

Length	Substitute
06 = 2-6 stations	**06**
10 = 7-10 stations	**10**
15 = 11-15 stations	**15**
20 = 16-20 stations	**20**
24 = 21-24 stations	**24**

Option selector - Control Modules IP65

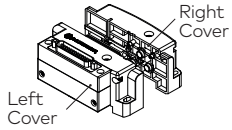
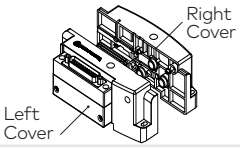
VR1X7516 B M 02 ★★

Type	Substitute
Component	**7516**
IP Rating	**Substitute**
IP65	**B**
Type	**Substitute**
Manifold	**M**

Control	Substitute
EtherCAT *1)	**EC**
EtherNet/IP *1)	**EP**
IO-Link *1)	**IL**
PROFINET *1)	**PN**
CANopen 12 V d.c.	**C1**
CANopen 24 V d.c.	**C2**
Multipole D-Sub	**M6**
Option	**Substitute**
Module	**02**

*1) only for use with PNP valves

IP40 Options
End Plate Only (for IP40 Multipole Versions)

	Series	Connector Type	Connector	Cover Location	Orientation	Weight (kg)	Model
	VR10	--	None	Right	--	0.060	VR107516BM0901
	VR10	D-Sub Connector 25-Pin	D-Sub	Left	Horizontal	0.105	VR107516AM0902
	VR10	D-Sub Connector 25-Pin	D-Sub	Left	Vertical	0.105	VR107516AM0903
	VR15	--	None	Right	--	0.086	VR157516BM0901
	VR15	D-Sub Connector 25-Pin	D-Sub	Left	Horizontal	0.131	VR157516AM0902
	VR15	D-Sub Connector 25-Pin	D-Sub	Left	Vertical	0.131	VR157516AM0903

Option selector - End Plate IP40 Multipole

VR★★7516 A M ★ ★ ★★

Series	Substitute
VR10	**10**
VR15	**15**
Type	**Substitute**
Component	**7516**
IP Rating	**Substitute**
IP40	**A**

Base Style	Substitute
End Plate (Right Side)	**01**
Multipole Horizontal D-Sub Connector (Left Side)	**02**
Multipole Vertical D-Sub Connector (Left Side)	**03**
Option	**Substitute**
End Plate	**09**
Type	**Substitute**
Manifold	**M**

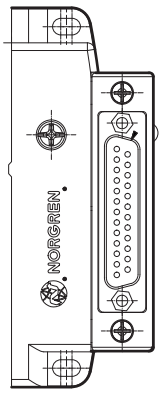
Multipole (IP40 only) - Cables

D-Sub Connector Cable

VR10569-E##

Insert **15** for 1.5m,
03 for 3m and
05 for 5m

Multipole (IP40):
Connector: 1 x D-Sub 25-pin



D-Sub connector wiring

Pin no.	Wire colour	Socket	Pilot	Station
1	Black	Solenoid 1-a	14	1
2	Black, White	Solenoid 2-a	14	2
3	Brown	Solenoid 3-a	14	3
4	Brown, White	Solenoid 4-a	14	4
5	Red	Solenoid 5-a	14	5
6	Red, Yellow	Solenoid 6-a	14	6
7	Red, White	Solenoid 7-a	14	7
8	Pink	Solenoid 8-a	14	8
9	Pink, White	Solenoid 9-a	14	9
10	Yellow	Solenoid 10-a	14	10
11	Yellow, Red	Solenoid 11-a	14	11
12	Yellow, Blue	Solenoid 12-a	14	12
13	Green	Common	--	--
14	Green, Yellow	Solenoid 1-b	12	1
15	Green, White	Solenoid 2-b	12	2
16	Blue	Solenoid 3-b	12	3
17	Blue, Yellow	Solenoid 4-b	12	4
18	Blue, White	Solenoid 5-b	12	5
19	Violet	Solenoid 6-b	12	6
20	Violet, White	Solenoid 7-b	12	7
21	Gray	Solenoid 8-b	12	8
22	Gray, Red	Solenoid 9-b	12	9
23	White	Solenoid 10-b	12	10
24	White, Red	Solenoid 11-b	12	11
25	White, Blue	Solenoid 12-b	12	12

* This table is only applicable to the D-Sub cables that NORGREN supplies, IP40 version. Cable part numbers VR10569-E15, VR10569-E03 and VR10569-E05.

The table indicates corresponding relation between pins, solenoids, pilots and stations based on configuration (12 stations, double solenoids) shown in table.

Valve islands exceeding 12 stations please refer to the Installation & Maintenance for Pin-Out

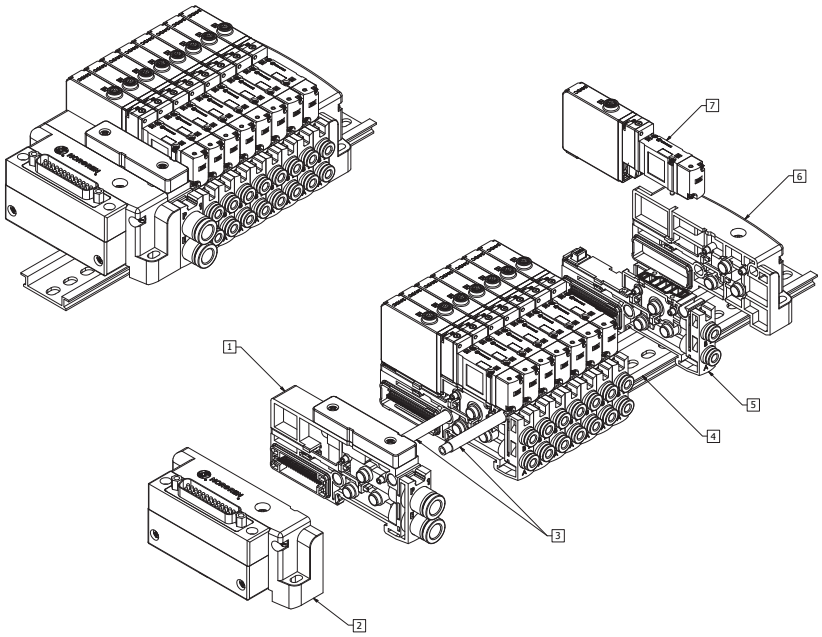
Part numbering for complete valve islands

Series	Substitute
VR10	**10**
VR15	**15**
Number of stations	**Substitute**
2 stations	**02**
3 stations	**03**
4 stations	**04**
5 stations	**05**
6 stations	**06**
7 stations	**07**
8 stations	**08**
9 stations	**09**
10 stations	**10**
11 stations	**11**
12 stations	**12**
13 stations	**13**
14 stations	**14**
15 stations	**15**
16 stations	**16**
17 stations	**17**
18 stations	**18**
19 stations	**19**
20 stations	**20**
21 stations	**21**
22 stations	**22**
23 stations	**23**
24 stations	**24**
Electrical connection	**Substitute**
EtherCAT	**EC**
EtherNet/IP	**EP**
IO-Link	**IL**
PROFINET	**PN**
IP40 Multipole D-Sub 25pin	**M2**
P65 Multipole D-Sub 25pin	**M6**
CANopen 12 V d.c.	**C1**
CANopen 24 V d.c.	**C2**

To be defined by online Valve Island configurator based on valve slice selection

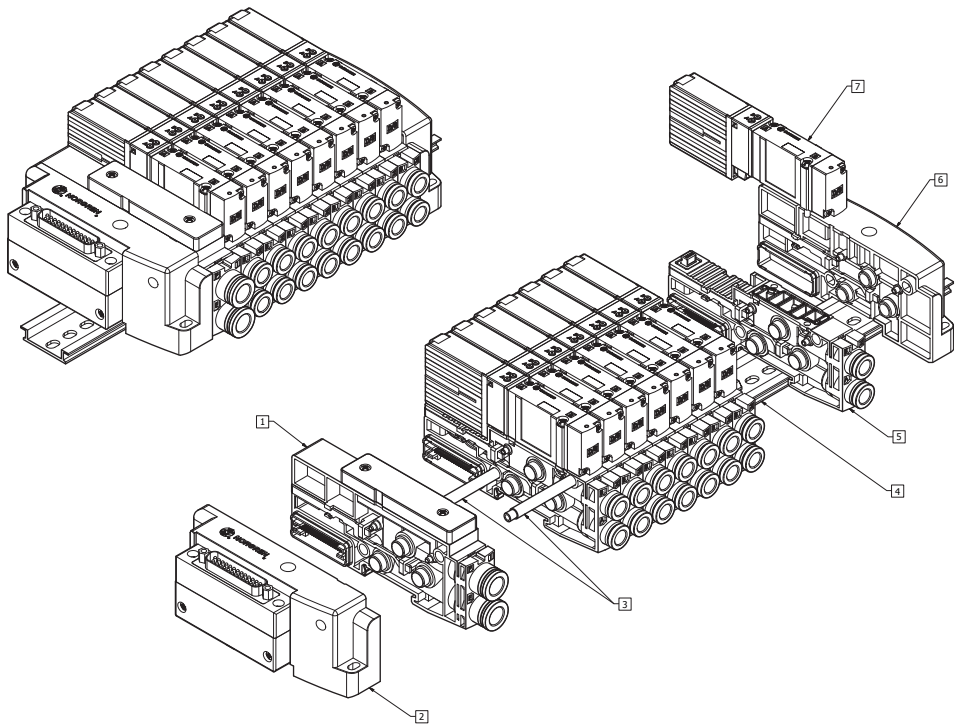
To configure and order a valve island visit - www.norgren.com/uk/en/vic_landing.aspx

VR10 Exploded view (IP40 Multipole Versions)



1 Sup/exh module
2 Left End Plate
3 Tie Rod
4 DIN Rail
5 Sub-base
6 Right End Plate
7 Valve

VR15 Exploded view (IP40 Multipole Versions)

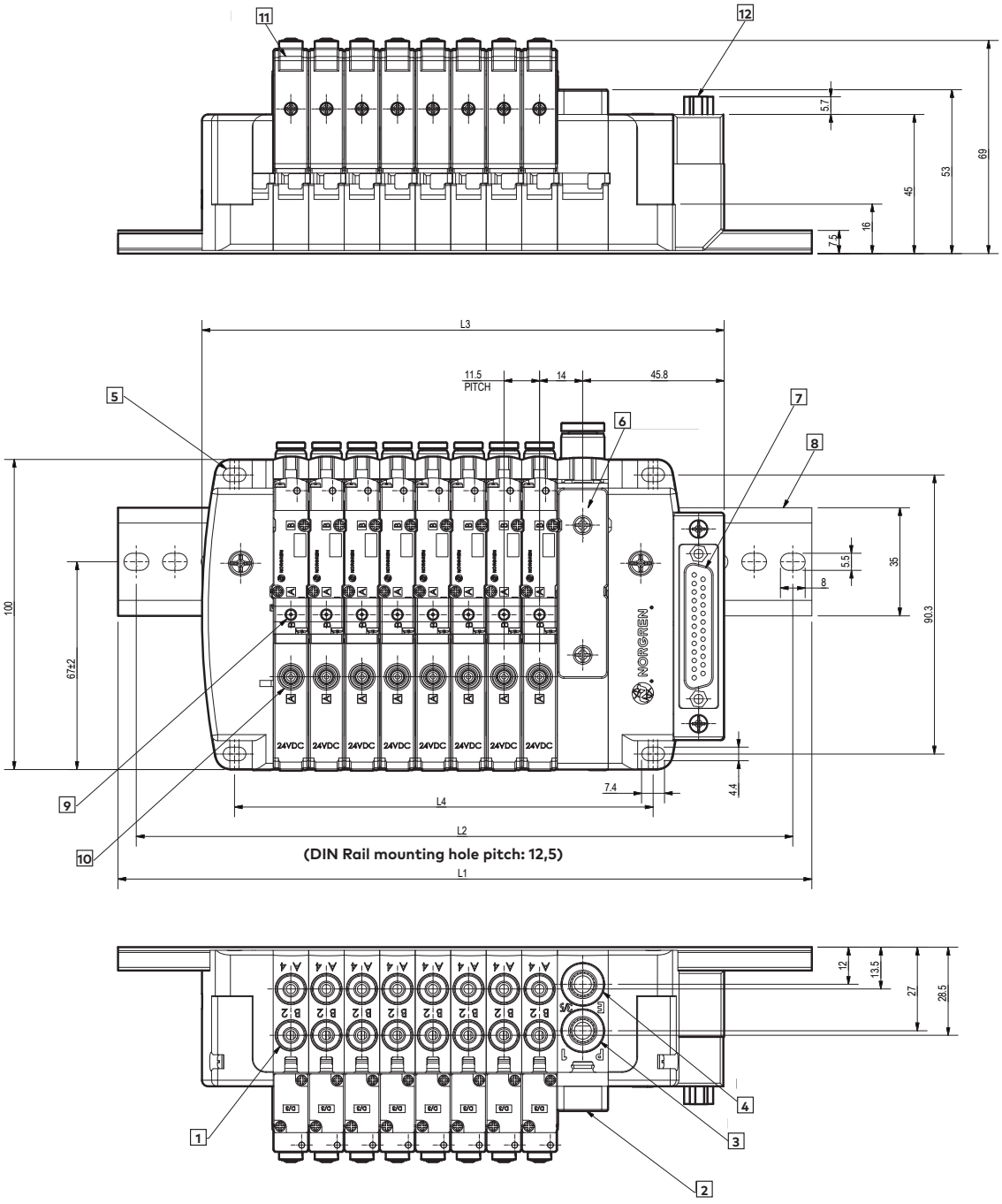


1 Sup/exh module
2 Left End Plate
3 Tie Rod
4 DIN Rail
5 Sub-base
6 Right End Plate
7 Valve

All configured assemblies use tie rods

VR10 Series (Valve Island) Internal Pilot without Silencer (IP40 Multipole Versions)

Dimensions in mm
Projection/First angle



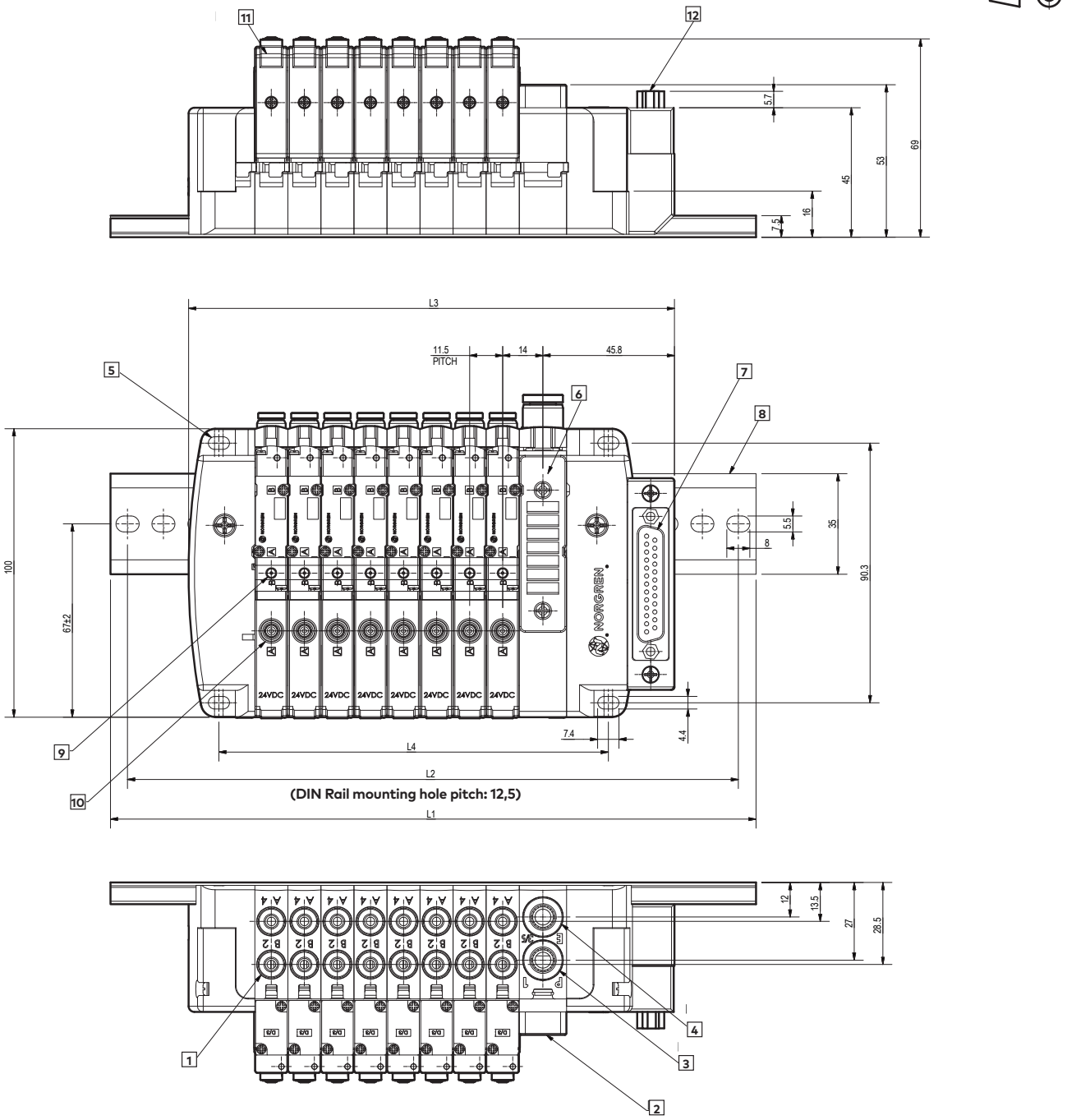
1 Outlet Port: PIF for tube O.D 4, O.D 6, O.D 5/32", O.D 1/4"
2 Sup/Exh module
3 Supply Port: PIF for tube O.D 8, O.D 5/16"
4 Exhaust Port: PIF for tube O.D 8, O.D 5/16"
5 Mounting 4x M4
6 Exhaust Port: Blank Plate
7 Applicable connector: D-Sub Connector 25 Pin
8 DIN Rail
9 Manual override (Port 2)
10 Manual override (Port 4)
11 LED
12 Connector direction: vertical or horizontal

N: Stations	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
L1 (mm)	200					250				300					387.5					437.5			
L2 (mm)	187.5					237.5				287.5					375					425			
L3 (mm)	100	111.5	123	134.5	146	157.5	169	180.5	192	220	231.5	243	254.5	266	277.5	289	300.5	312	323.5	335	346.5	358	369.5
L4 (mm)	66.5	78	89.5	101	112.5	124	135.5	147	158.5	186.5	198	209.5	221	232.5	244	255.5	267	278.5	290	301.5	313	324.5	336

*2~10 stations: one Sup/Exh Module is required. 11~24 stations: two Sup/Exh Modules are recommended.

VR10 Series (Valve Island) Internal Pilot with Silencer (IP40 Multipole Versions)

Dimensions in mm
Projection/First angle



1 Outlet Port: PIF for tube O.D 4, O.D 6, O.D 5/32", O.D 1/4"
2 Sup/exh module
3 Supply Port: PIF for tube O.D 8, O.D 5/16"
4 Exhaust Port: PIF for tube O.D 8, O.D 5/16"
5 Mounting 4x M4
6 Exhaust Port: Silencer plate
7 Applicable connector: D-Sub Connector 25 Pin
8 DIN Rail
9 Manual override (Port 2)
10 Manual override (Port 4)
11 LED
12 Connector direction: vertical or horizontal

N: Stations	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
L1 (mm)	200					250				300					387.5					437.5			
L2 (mm)	187.5					237.5				287.5					375					425			
L3 (mm)	100	111.5	123	134.5	146	157.5	169	180.5	192	220	231.5	243	254.5	266	277.5	289	300.5	312	323.5	335	346.5	358	369.5
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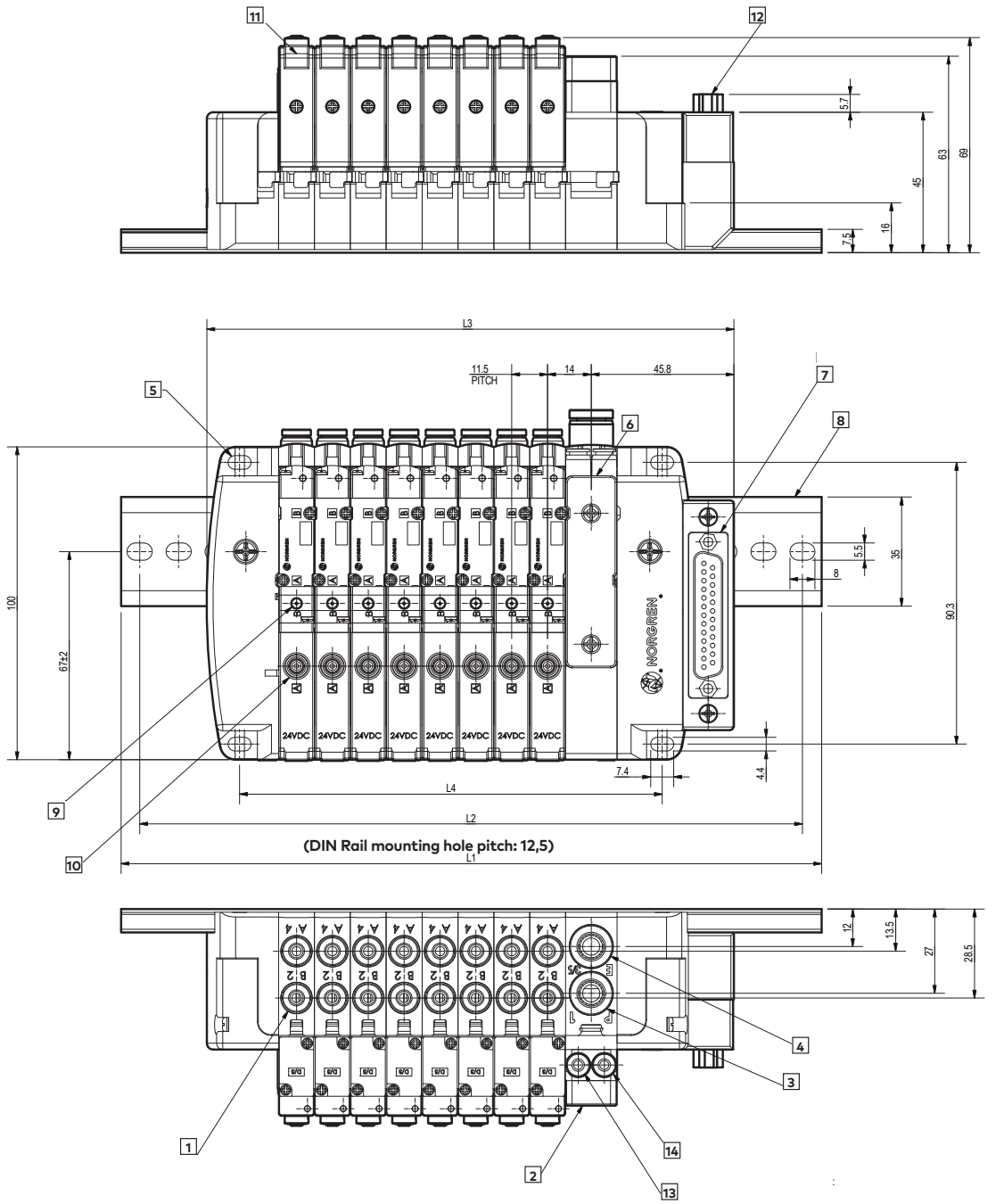
*2~10 stations: one Sup/Exh Module is required. 11~24 stations: two Sup/Exh Modules are recommended.

VR10 Series (Valve Island) External Pilot without Silencer (IP40 Multipole Versions)

Dimensions in mm
Projection/First angle



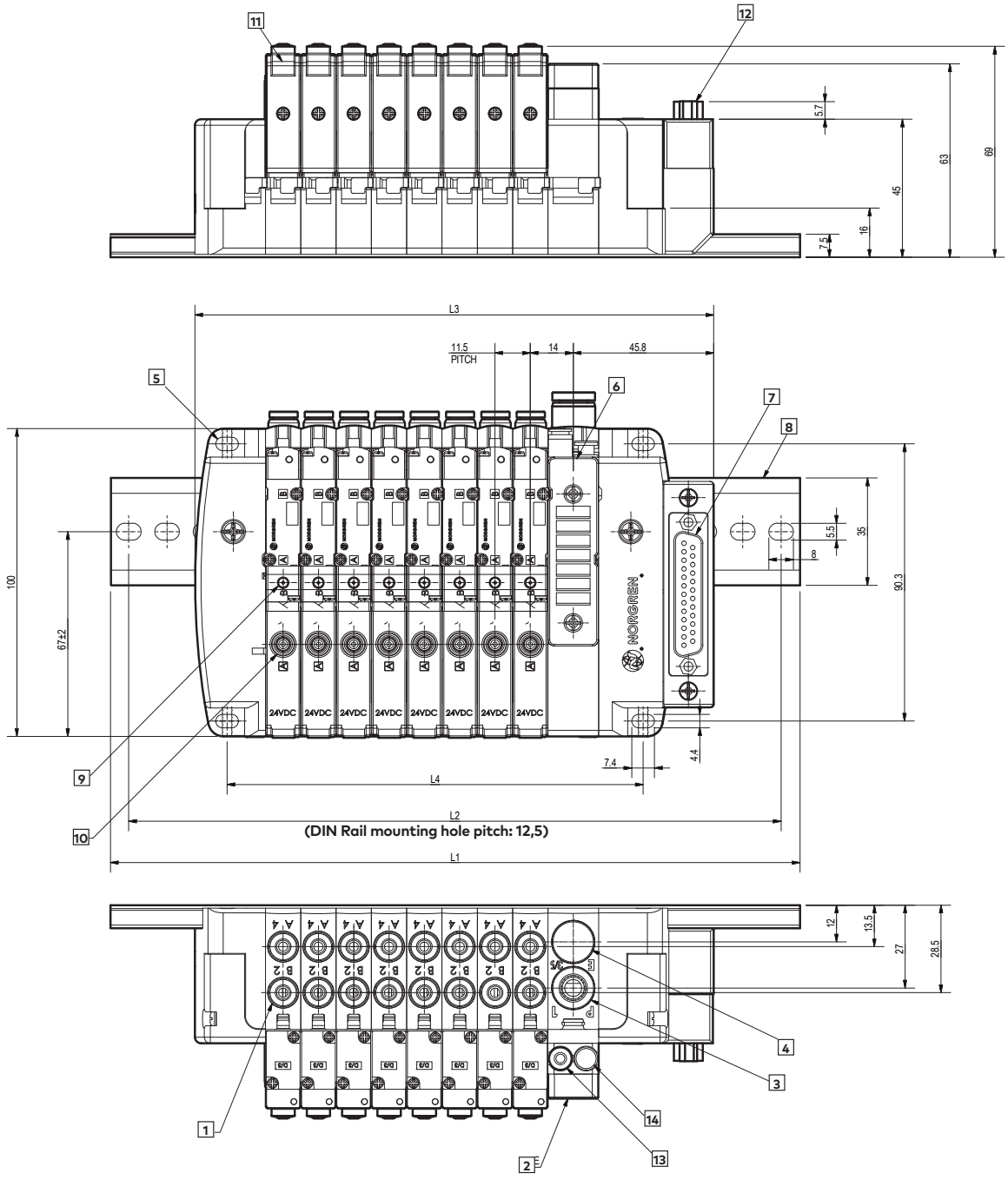
1 Outlet Port: PIF for tube O.D 4, O.D 6, O.D 5/32", O.D 1/4"
2 Sup/exh module
3 Supply Port: PIF for tube O.D 8, O.D 5/16"
4 Exhaust Port: PIF for tube O.D 8, O.D 5/16"
5 Mounting 4x M4
6 Exhaust Port: Blank Plate
7 Applicable connector: D-Sub Connector 25 Pin
8 DIN Rail
9 Manual override (Port 2)
10 Manual override (Port 4)
11 LED
12 Connector direction: vertical or horizontal
13 Supply Port of external pilot: PIF for tube O.D. 4, O.D. 5/32
14 Exhaust Port of external pilot: PIF for tube O.D. 4, O.D. 5/32"

N: Stations	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
L1 (mm)	200					250				300					387.5					437.5			
L2 (mm)	187.5					237.5				287.5					375					425			
L3 (mm)	100	111.5	123	134.5	146	157.5	169	180.5	192	220	231.5	243	254.5	266	277.5	289	300.5	312	323.5	335	346.5	358	369.5
L4 (mm)	66.5	78	89.5	101	112.5	124	135.5	147	158.5	186.5	198	209.5	221	232.5	244	255.5	267	278.5	290	301.5	313	324.5	336

*2~10 stations: one Sup/Exh Module is required. 11~24 stations: two Sup/Exh Modules are recommended.

VR10 Series (Valve Island) External Pilot with Silencer (IP40 Multipole Versions)

Dimensions in mm
Projection/First angle



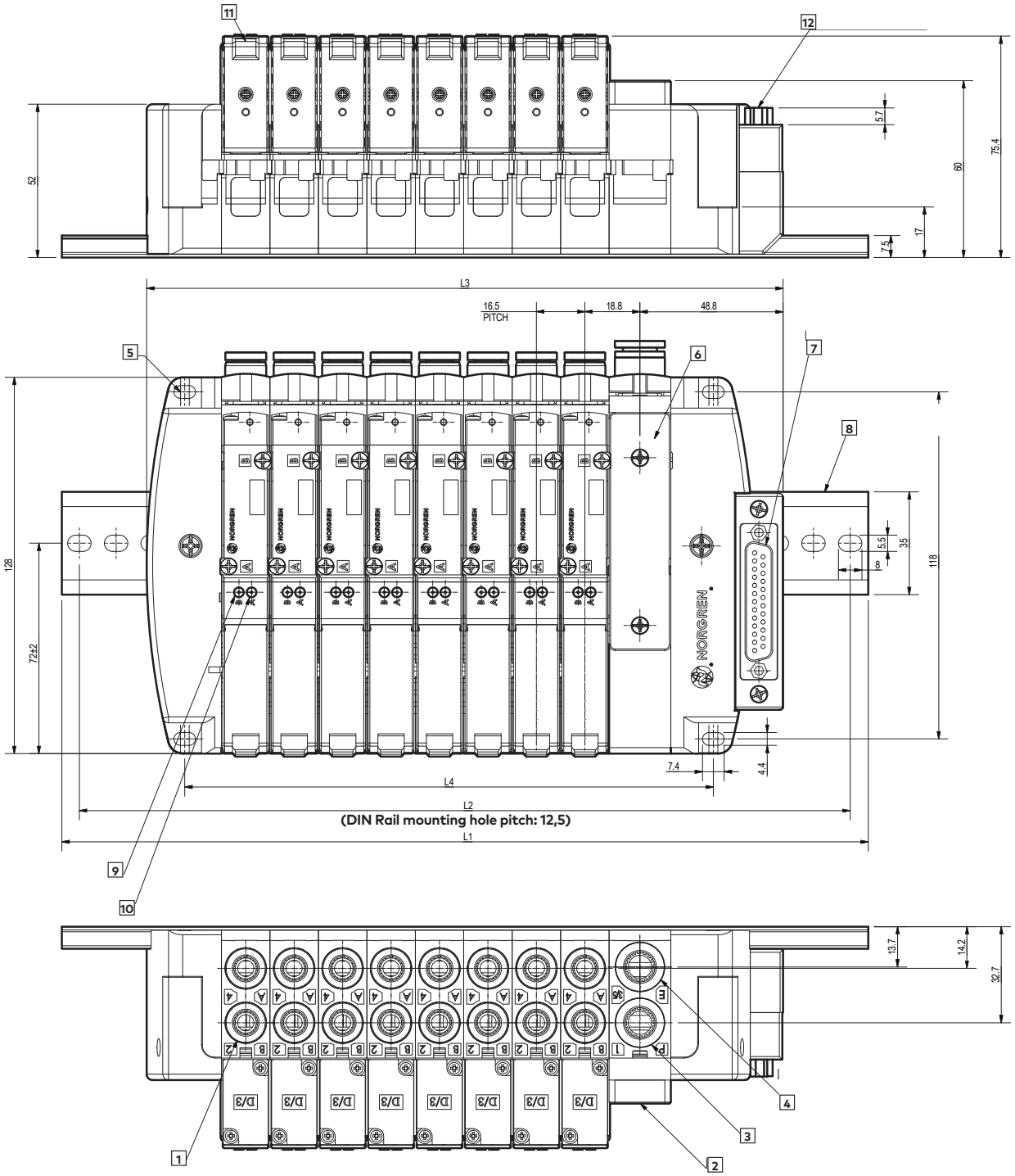
1 Outlet Port: PIF for tube O.D 4, O.D 6, O.D 5/32", O.D 1/4"
2 Sup/exh module
3 Supply Port: PIF for tube O.D 8, O.D 5/16"
4 Plug
5 Mounting 4x M4
6 Exhaust Port: Silencer Plate
7 Applicable connector: D-Sub Connector 25 Pin
8 DIN Rail
9 Manual override (Port 2)
10 Manual override (Port 4)
11 LED
12 Connector direction: vertical or horizontal
13 Supply Port of external pilot: PIF for tube O.D. 4, O.D. 5/32"
14 Plug

N: Stations	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
L1 (mm)	200					250				300					387.5					437.5			
L2 (mm)	187.5					237.5				287.5					375					425			
L3 (mm)	100	111.5	123	134.5	146	157.5	169	180.5	192	220	231.5	243	254.5	266	277.5	289	300.5	312	323.5	335	346.5	358	369.5
L4 (mm)	66.5	78	89.5	101	112.5	124	135.5	147	158.5	186.5	198	209.5	221	232.5	244	255.5	267	278.5	290	301.5	313	324.5	336

*2~10 stations: one Sup/Exh Module is required. 11~24 stations: two Sup/Exh Modules are recommended.

VR15 Series (Valve Island) Internal Pilot without Silencer (IP40 Multipole Versions)

Dimensions in mm
Projection/First angle



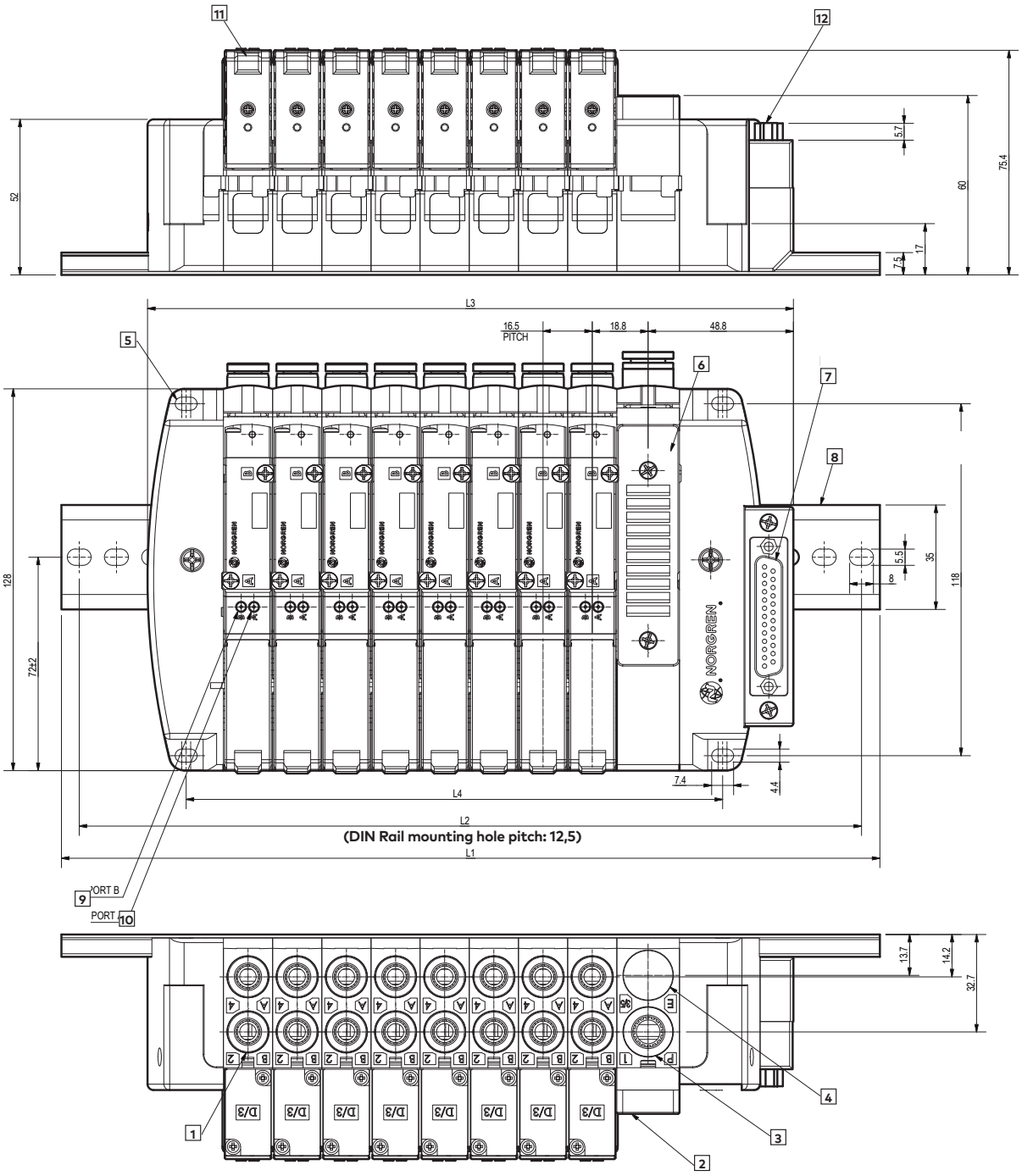
1 Outlet Port: PIF for tube O.D. 4, O.D 6, O.D 8, O.D 1/4", O.D 5/16"
2 Sup/exh module
3 Supply Port: PIF for tube O.D 10, O.D 3/8"
4 Exhaust Port: PIF for tubeO.D 10, O.D 3/8"
5 Mounting 4x M4
6 Exhaust Port: Blank Plate
7 Applicable connector: D-Sub Connector 25 Pin
8 DIN Rail
9 Manual override (Port 2)
10 Manual override (Port 4)
11 LED
12 Connector direction: vertical or horizontal

N: Stations	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
L1 (mm)			250				300				400					500					587		
L2 (mm)			237.5				287.5				387.5					487.5					574.5		
L3 (mm)	117.7	134.2	150.7	167.2	183.7	200.2	216.7	233.2	249.7	287.2	303.7	320.2	336.7	353.2	369.7	386.2	402.7	419.2	435.7	452.2	468.7	485.2	501.7
L4 (mm)	81	97.5	114	130.5	147	163.5	180	196.5	213	250.5	267	283.5	300	316.5	333	349.5	366	382.5	399	415.5	432	448.7	465

*2~10 stations: one Sup/Exh Module is required. 11~24 stations: two Sup/Exh Modules are recommended.

VR15 Series (Valve Island) Internal Pilot with Silencer (IP40 Multipole Versions)

Dimensions in mm
Projection/First angle



1 Outlet Port: PIF for tube O.D. 4, O.D 6, O.D 8, O.D 1/4", O.D 5/16"
2 Sup/exh module
3 Supply Port: PIF for tube O.D 10, O.D 3/8"
4 Plug
5 Mounting 4x M4
6 Exhuast Port: Silencer Plate
7 Applicable connector: D-Sub Connector 25 Pin
8 DIN rail
9 Manual override (Port 2)
10 Manual override (Port 4)
11 LED
12 Connector direction: vertical or horizontal

N: Stations	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
L1 (mm)	250					300				400					500					587			
L2 (mm)	237.5					287.5				387.5					487.5					574.5			
L3 (mm)	117.7	134.2	150.7	167.2	183.7	200.2	216.7	233.2	249.7	287.2	303.7	320.2	336.7	353.2	369.7	386.2	402.7	419.2	435.7	452.2	468.7	485.2	501.7
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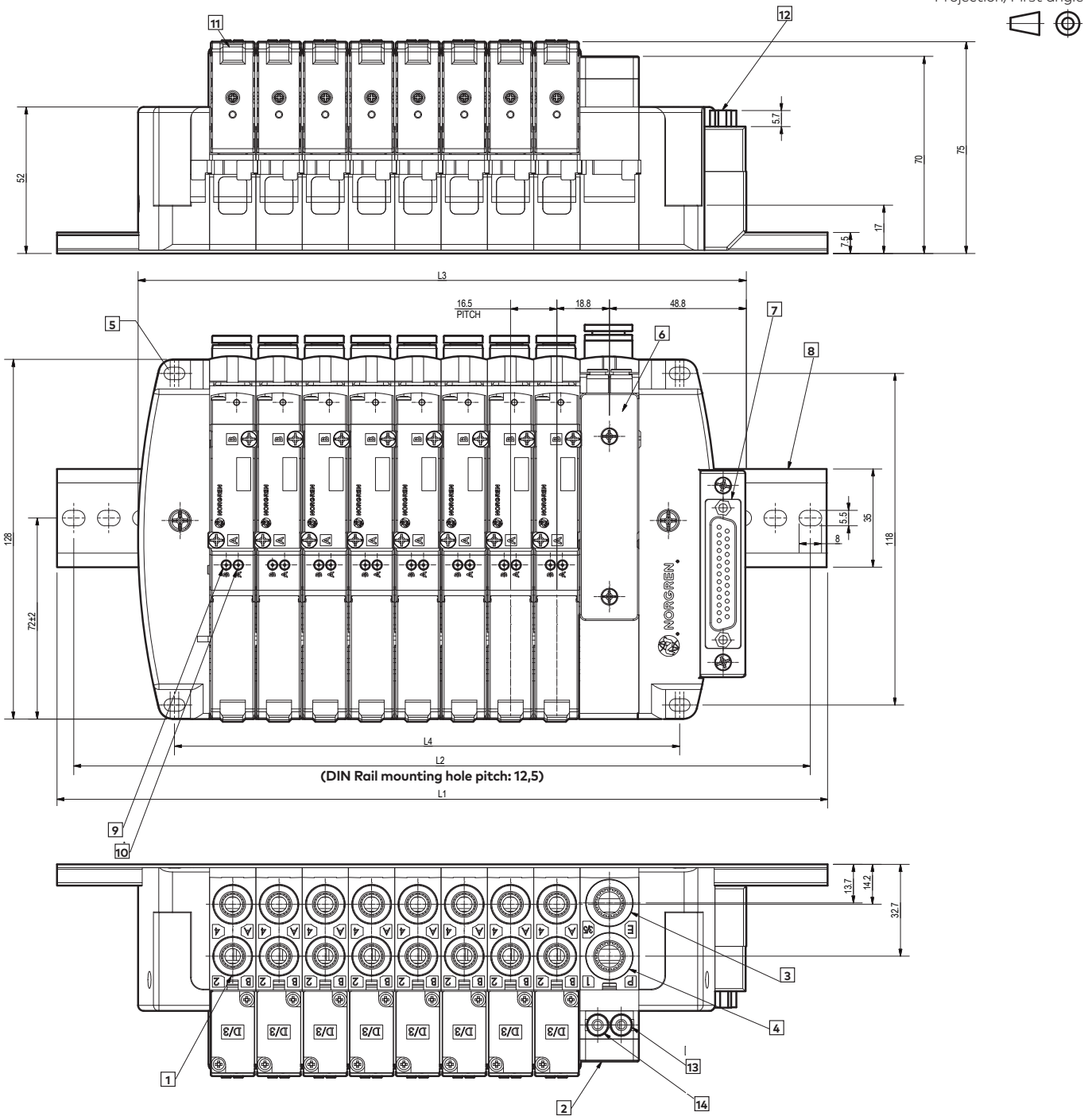
*2~10 stations: one Sup/Exh Module is required. 11~24 stations: two Sup/Exh Modules are recommended.

VR15 Series (Valve Island) External Pilot without Silencer (IP40 Multipole Versions)

Dimensions in mm
Projection/First angle



1 Outlet Port: PIF for tube O.D. 4, O.D 6, O.D 8, O.D 1/4", O.D 5/16"
2 Sup/exh module
3 Exhaust Port: PIF for tube O.D 10, O.D 3/8"
4 Supply Port: PIF for tubeO.D 10, O.D 3/8"
5 Mounting 4x M4
6 Exhaust Port: Blank Plate
7 Applicable connector: D-Sub Connector 25 Pin
8 DIN Rail
9 Manual override (Port 2)
10 Manual override (Port 4)
11 LED
12 Connector direction: vertical or horizontal
13 Exhaust Port of external pilot: PIF for tube O.D. 4, O.D. 5/32
14 Supply Port of external pilot: PIF for tube O.D. 4, O.D. 5/32"

N: Stations	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
L1 (mm)	250					300				400					500					587			
L2 (mm)	237.5					287.5				387.5					487.5					574.5			
L3 (mm)	117.7	134.2	150.7	167.2	183.7	200.2	216.7	233.2	249.7	287.2	303.7	320.2	336.7	353.2	369.7	386.2	402.7	419.2	435.7	452.2	468.7	485.2	501.7
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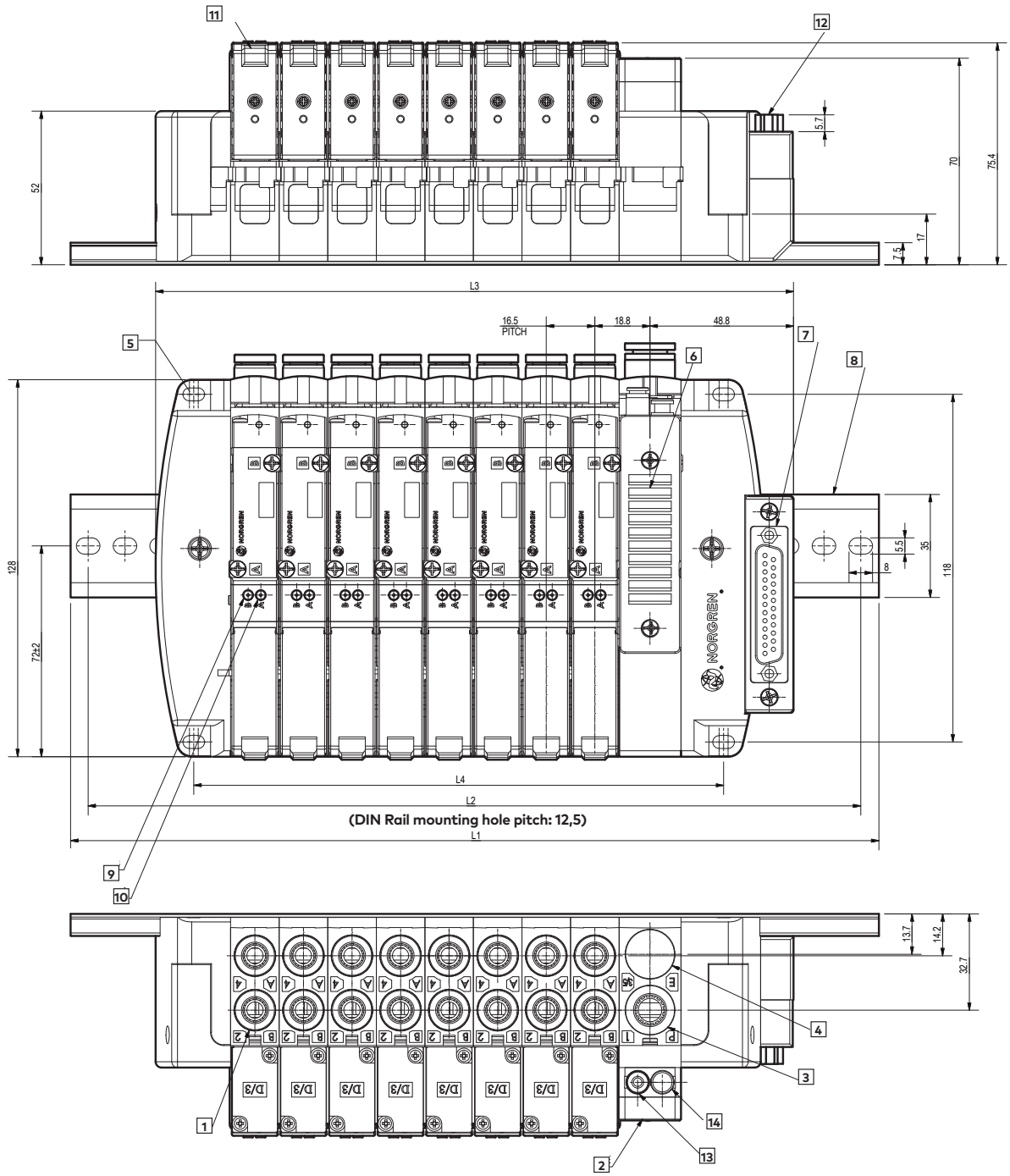
*2~10 stations: one Sup/Exh Module is required. 11~24 stations: two Sup/Exh Modules are recommended.

VR15 Series (Valve Island) External Pilot with Silencer (IP40 Multipole Versions)

Dimensions in mm
Projection/First angle



1 Outlet Port: PIF for tube O.D. 4, O.D 6, O.D 8, O.D 1/4", O.D 5/16"
2 Sup/exh module
3 Supply Port: PIF for tube O.D 10, O.D 3/8"
4 Plug
5 Mounting 4x M4
6 Exhaust Port: Silencer Plate
7 Applicable connector: D-Sub Connector 25 Pin
8 DIN Rail
9 Manual override (Port 2)
10 Manual override (Port 4)
11 LED
12 Connector direction: vertical or horizontal
13 Supply Port of external pilot: PIF for tube O.D. 4, O.D. 5/32
14 Plug

N: Stations	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
L1 (mm)	250					300				400					500					587			
L2 (mm)	237.5					287.5				387.5					487.5					574.5			
L3 (mm)	117.7	134.2	150.7	167.2	183.7	200.2	216.7	233.2	249.7	287.2	303.7	320.2	336.7	353.2	369.7	386.2	402.7	419.2	435.7	452.2	468.7	485.2	501.7
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*2~10 stations: one Sup/Exh Module is required. 11~24 stations: two Sup/Exh Modules are recommended.

Warning

These products are intended for use in industrial compressed air systems only. Do not use these products where pressures and temperatures can exceed those listed under **»Technical features/data«**. Before using these products with fluids other than those specified, for non-industrial applications, life-support systems or other applications not within published specifications, consult Norgren. Through misuse, age, or malfunction, components used in fluid power systems can fail in various modes.

The system designer is warned to consider the failure modes of all component parts used in fluid power systems and to provide adequate safeguards to prevent personal injury or damage to equipment in the event of such failure.
System designers must provide a warning to end users in the system instructional manual if protection against a failure mode cannot be adequately provided.
System designers and end users are cautioned to review specific warnings found in instruction sheets packed and shipped with these products.