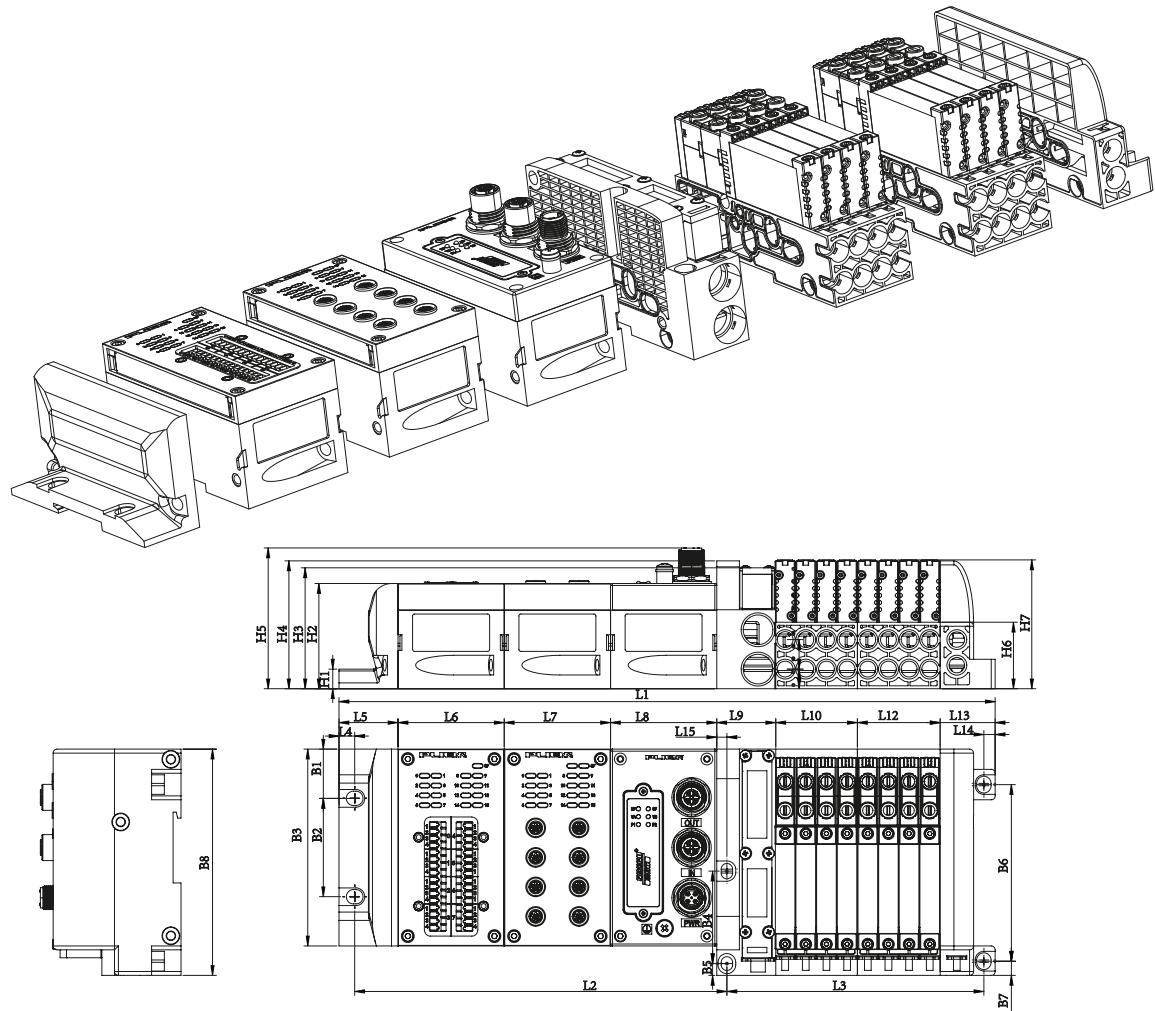


► Datasheet - Metal

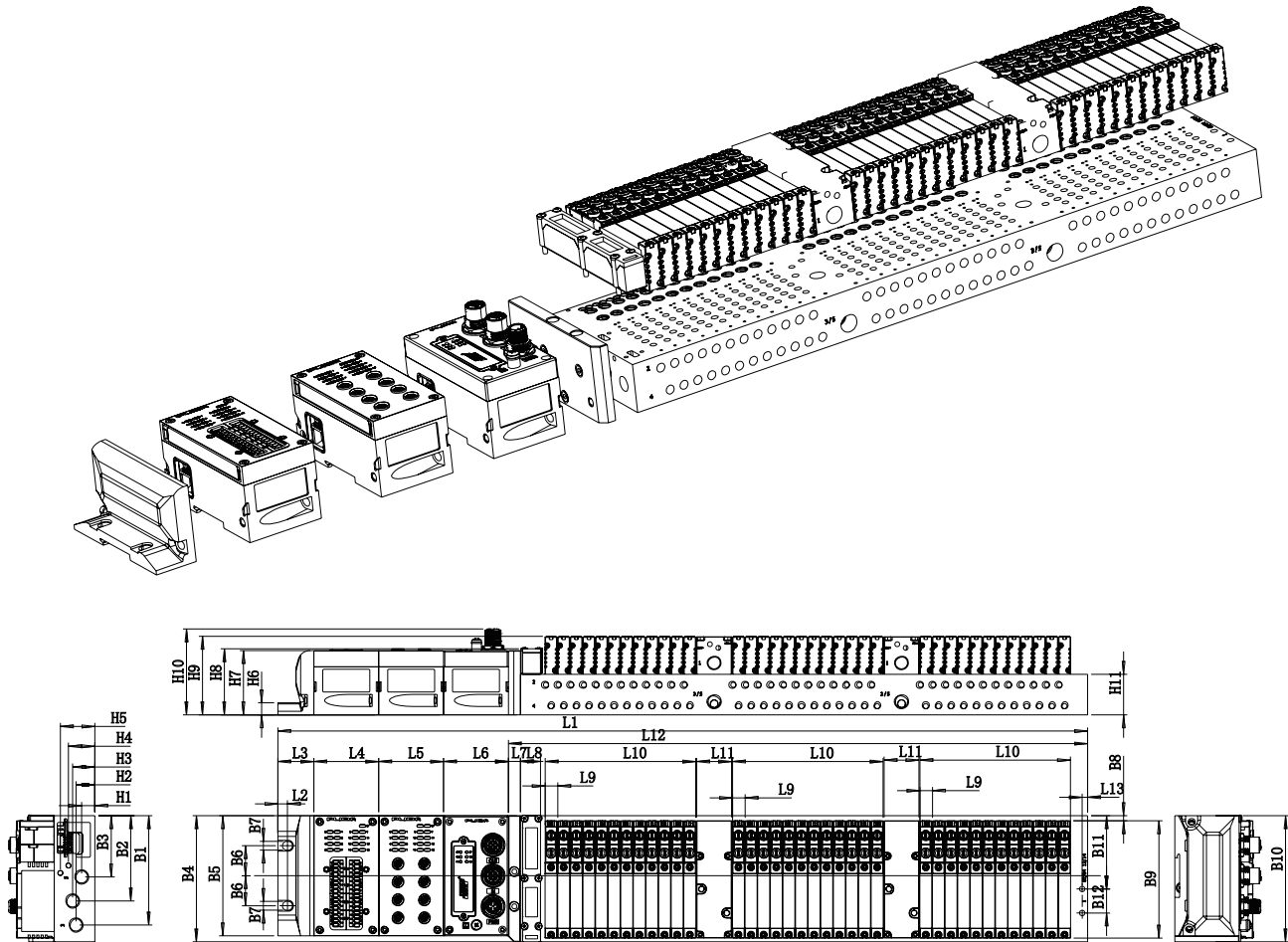


Unit	H1	H2	H3	H4	H5	H6	H7	B1	B2	B3	B4	B5
[mm]	10	53.7	61.45	65	71.6	33.8	65.5	25	50	100	47	6
Unit	B6	B7	B8	L2	L3	L4	L5	L6	L7	L8	L9	L10
[mm]	89.75	7.25	115	189.15	130.6	8	30	54	54	54	30	42
Unit	L11			L12			L13			L14		
[mm]	42			28			28.15			5.75		

Valve Width	L1	
10mm	30+n1*54+54+10.5*n2+30*n5+L13	
14mm	30+n1*54+54+14.5*n3+30*n5+L13	
18mm	30+n1*54+54+18.5*n4+30*n5+L13	

n1: Number of electrical modules
n2: Number of 10mm bases
n3: Number of 14mm bases
n4: Number of 18mm bases
n5: Number of intake blocks

► Datasheet - Synthetic resin



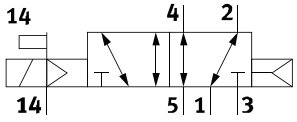
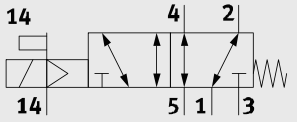
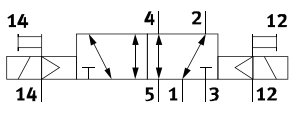
Unit	H1	H2	H3	H4	H5	H6	H7	H8	H9	H10	H11	
[mm]	11	15.7	18.5	22	28.7	10	53.5	55.05	65.4	71.5	33.8	
Unit	B1	B2	B3	B4	B5	B6	B7	B8	B9	B10	B11	B12
[mm]	91	71	51	105	100	25	7.3	4.25	97.6	105	61	20
Unit	L2	L3	L4	L5	L6	L7	L8	L9	L10	L11	L12	L13
[mm]	8	30	54	54	54	10	16.75	10.5	123.5	29	482.2	4.5

Valve Width	L1	
10mm	30+n1*54+54+10+16.75+10.5*n2+29*n4+14.1	
14mm	30+n1*54+54+10+16.75+14.5*n3+29*n4+14.1	

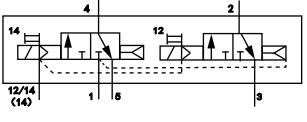
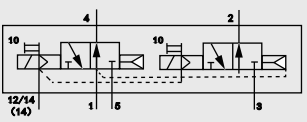
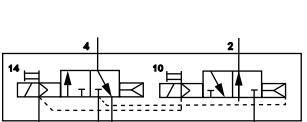
n1: Number of electrical modules
n2: Number of 10mm bases
n3: Number of 14mm bases
n4: Number of intake blocks

► Main Features-Pneumatic Components

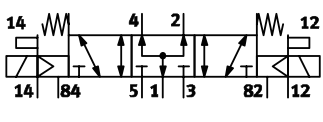
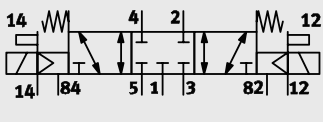
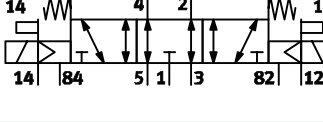
5/2-Valve

Code	Airway Diagram	Width(mm)	l/min	Description
M		10	320	5/2-way solenoid valve, single solenoid · pneumatic spring return · Reverse work · Working pressure -0.09 ... +0.7 MPa
		15	820	
O		10	320	5/2-way solenoid valve, single solenoid · mechanical spring return · Reverse work · Working pressure -0.09 ... +0.7 MPa
		15	820	
J		10	320	5/2-way solenoid valve, double solenoid · Working pressure -0.09 ... +0.7 MPa
		15	820	

2x3/2-Valve

Code	Airway Diagram	Width(mm)	l/min	Description
K		10	320	2x 3/2-way solenoid valve, single solenoid · normally closed · pneumatic spring return · Working pressure 0.2 ... 0.7 MPa
		15	710	
N		10	320	2x 3/2-way solenoid valve, single solenoid · normally open · pneumatic spring return · Working pressure 0.2 ... 0.7 MPa
		15	710	
H		10	320	2x 3/2-way solenoid valve, single solenoid · normally position · -1x normally closed · -1x normally open · pneumatic spring return · Working pressure 0.2 ... 0.7 MPa
		15	710	

5/3-Valve

Code	Airway Diagram	Width(mm)	l/min	Description
B		10	370	5/3-way solenoid valve · mid-position pressurised · mechanical spring return · Working pressure -0.09 ... +0.7 MPa
		15	800	
G		10	370	5/3-way solenoid valve · mid-position exhausted · mechanical spring return · Working pressure -0.09 ... +0.7 MPa
		15	800	
E		10	370	5/3-way solenoid valve · mid-position exhausted · mechanical spring return · Working pressure -0.09 ... +0.7 MPa
		15	800	

► Valve Plate Configuration

Series	Option
V	V1/V2
S	S1/S2
FS	Option
2x3/2 normally closed	32 CC
2x3/2 normally open	32 OO
2x3/2 normally closed/open	32 CO
5/3 exhausted valve	53 MP
5/3 pressurised valve	53 MC
5/3 closed valve	53 ME
5/2 double solenoid	52 D
5/2 single solenoid, mechanical spring	52 SM
5/2 single solenoid, pneumatic spring	52 SP

VTPV

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Width	Option
10mm	A
14mm	B
18mm	C
FS	Option
2x3/2 normally closed	K
2x3/2 normally open	N
2x3/2 normally closed/open	H
5/3 exhausted valve	B
5/3 pressurised valve	G
5/3 closed valve	E
5/2 double solenoid	J
5/2 single solenoid, mechanical spring	O
5/2 single solenoid, pneumatic spring	M
Vacant plate	L

Coil Parameter

Working voltag	(24V DC)±10%
Duty cycle	100 % Continuous duty
Indicator light	LED green/red
surge protection	Transient diode
Material quality	PPS (body)/FKM/NBR (seal)

Order Information

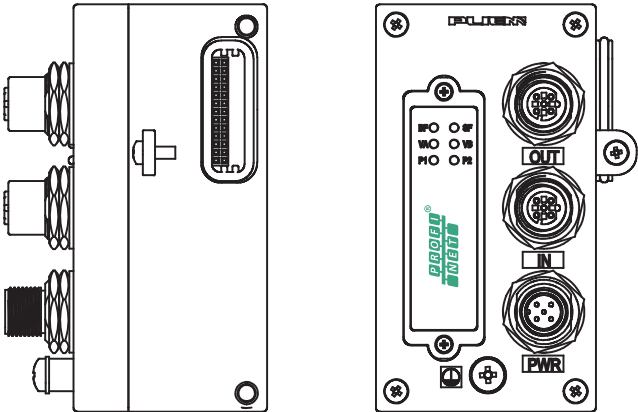
Valve plate code	Valve plate function description	Valve width	Number of order	Model
K	2x 3/2-way solenoid valve,single solenoid ·Normally open	10	369101	VTPV-V1S1-32CC-A-K
N	2x 3/2-way solenoid valve ,single solenoid ·Normally closed	10	369102	VTPV-V1S1-32OO-A-N
H	2x 3/2-way solenoid valve , single solenoid -1x normally open, -1x normally closed	10	369103	VTPV-V1S1-32OC-A-H
M	5/2-way solenoid valve,single solenoid ·Pneumatic spring return	10	369104	VTPV-V1S1-52SP-A-M
O	5/2-way solenoid valve,single solenoid ·Mechanical spring return	10	369105	VTPV-V1S1-52SM-A-O
J	5/2-way solenoid valve ·Double solenoid	10	369106	VTPV-V1S1-52D-A-J
B	5/3-way solenoid valve ·Mid-position pressurised	10	369107	VTPV-V1S1-53ML-A-B
G	5/3-way solenoid valve ·Mid-position closed	10	369108	VTPV-V1S1-53MC-A-G
E	5/3-way solenoid valve ·Mid-position exhausted	10	369109	VTPV-V1S1-53ME-A-E
L	Blanking plate	10	369110	VTPV-V1S1-A-L
K	2x two three-way valves,single electric control ·Normally close	14	369122	VTPV-V1S1-32OO-B-K
N	2x two three-way valves,single electric control ·Normally open	14	369121	VTPV-V1S1-32CC-B-N
H	2x two three-way valves, single electric control -1x normally closed, -1x normally open	14	369123	VTPV-V1S1-32OC-B-H
M	5/2-way solenoid valve,single solenoid ·Pneumatic spring return	14	369124	VTPV-V1S1-52SP-B-M
O	5/2-way solenoid valve,single solenoid ·Mechanical spring return	14	369125	VTPV-V1S1-52SM-B-O
J	5/2-way solenoid valve ·Double solenoid	14	369126	VTPV-V1S1-52D-B-J
B	5/3-way solenoid valve ·Mid-position pressurised	14	369127	VTPV-V1S1-53ML-B-B
G	5/3-way solenoid valve ·Mid-position closed	14	369128	VTPV-V1S1-53MC-B-G
E	5/3-way solenoid valve ·Mid-position exhausted	14	369129	VTPV-V1S1-53ME-B-E
L	Blanking plate	14	369130	VTPV-V1S1-B-L

Valve plate code	Valve plate function description	Valve width	Number of order	Model
K	2x 3/2-way solenoid valve,single solenoid ·Normally open	18	369141	VTPV-V1S1-32CC-C-K
N	2x 3/2-way solenoid valve ,single solenoid ·Normally closed	18	369142	VTPV-V1S1-32OO-C-N
H	2x 3/2-way solenoid valve , single solenoid -1x normally open, -1x normally closed	18	369143	VTPV-V1S1-32OC-C-H
M	5/2-way solenoid valve,single solenoid ·Pneumatic spring return	18	369144	VTPV-V1S1-52SP-C-M
O	5/2-way solenoid valve,single solenoid ·Mechanical spring return	18	369145	VTPV-V1S1-52SM-C-O
J	5/2-way solenoid valve ·Double solenoid	18	369146	VTPV-V1S1-52D-C-J
B	5/3-way solenoid valve ·Mid-position pressurised	18	369147	VTPV-V1S1-53ML-C-B
G	5/3-way solenoid valve ·Mid-position closed	18	369148	VTPV-V1S1-53MC-C-G
E	5/3-way solenoid valve ·Mid-position exhausted	18	369149	VTPV-V1S1-53ME-C-E
L	Blanking plate	18	369150	VTPV-V1S1-C-L

► Main Features-Electrical Module

Communication module:PROFINET IRT

Connector:2xM12 4-pin / 1 xM12 5-pin



Communication connector:M12 4-PIN D-coded

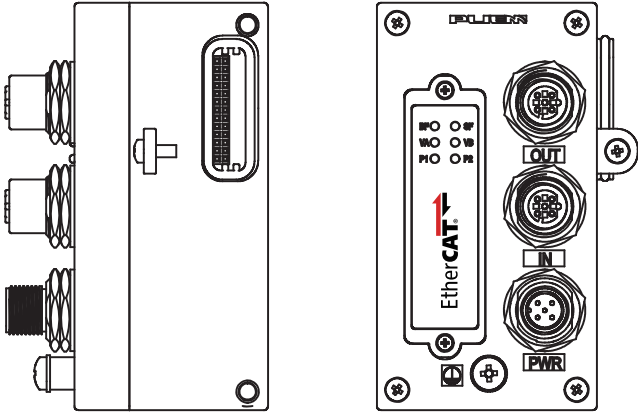
Cable distribution	NO.	Signal
	1	Transmission data+ (TD+)
	2	Receiving data+ (RD+)
	3	Transmission data- (TD-)
	4	Receiving data- (RD-)

Power connector:7/8"- M 5-PIN

Cable distribution	NO.	Function
	1	24 V DC load power supply voltage, for electronic components and sensors
	2	0 V DC power voltage, for valve and output
	3	0 V DC power supply voltage for electronic components and sensors
	4	24 V DC load power supply voltage, for valve and output
	5	FE

Communication module:EtherCAT

Connector:2xM12 4-pin / 1 xM12 5-pin



Communication connector:M12 4-PIN D-coded

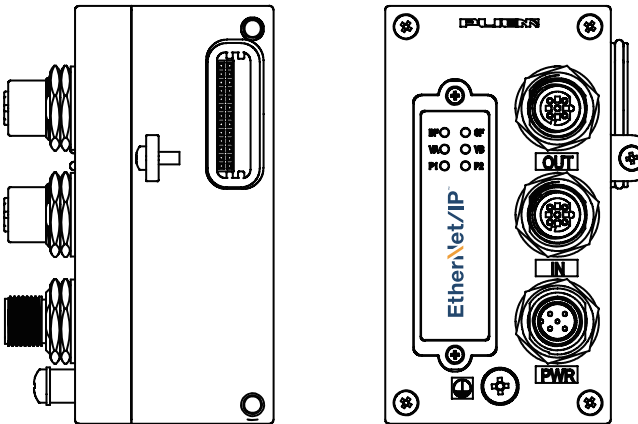
Cable distribution	NO.	Signal
	1	Transmission data+ (TD+)
	2	Receiving data+ (RD+)
	3	Transmission data- (TD-)
	4	Receiving data- (RD-)

Power connector:7/8"- M 5-PIN

Cable distribution	NO.	Function
	1	24 V DC load power supply voltage, for electronic components and sensors
	2	0 V DC power voltage, for valve and output
	3	0 V DC power supply voltage for electronic components and sensors
	4	24 V DC load power supply voltage, for valve and output
	5	FE

Communication module:EtherNet/IP

Connector:2 xM12 4-pin / 1 xM12 5-pin



Communication connector:M12 4-PIN D-coded

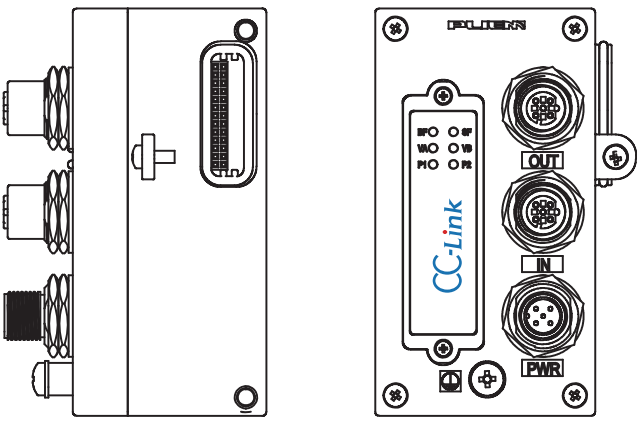
Cable distribution	NO.	Signal
	1	Transmission data+ (TD+)
	2	Receiving data+ (RD+)
	3	Transmission data- (TD-)
	4	Receiving data- (RD-)

Power connector:7/8"- M 5-PIN

Cable distribution	NO.	Function
	1	24 V DC load power supply voltage, for electronic components and sensors
	2	0 V DC power voltage, for valve and output
	3	0 V DC power supply voltage for electronic components and sensors
	4	24 V DC load power supply voltage, for valve and output
	5	FE

Communication module:CC-Link

Connector:2xM12 4-pin / 1 xM12 5-pin



Communication connector:M12 4-PIN D-coded

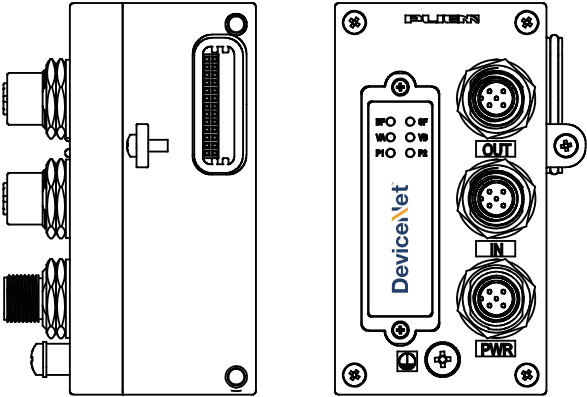
Cable distribution	NO.	Signal
	1	Transmission data+ (TD+)
	2	Receiving data+ (RD+)
	3	Transmission data- (TD-)
	4	Receiving data- (RD-)

Power connector:7/8"- M 5-PIN

Cable distribution	NO.	Function
	1	24 V DC load power supply voltage, for electronic components and sensors
	2	0 V DC power voltage, for valve and output
	3	0 V DC power supply voltage for electronic components and sensors
	4	24 V DC load power supply voltage, for valve and output
	5	FE

Communication module:DeviceNet

Connector:2xM12 5-pin / 1 xM12 5-pin



Communication connector:M12 5-PIN D-coded

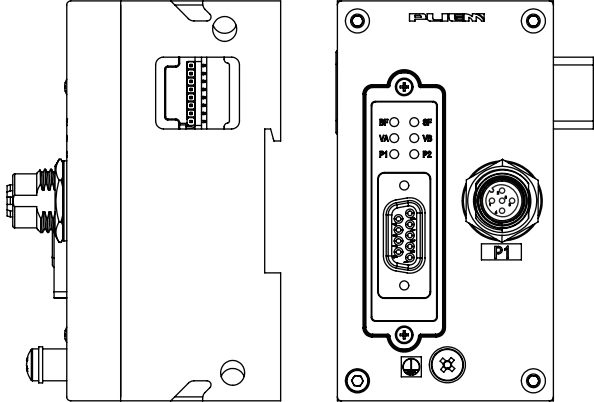
Cable distribution	NO.	Signal
	1	Drain Shielding
	2	V+
	3	V-
	4	CAN-H
	5	CAN-L

Power connector:M12 5-PIN A-coded

Cable distribution	NO.	Function
	1	24 V DC load power supply voltage, for electronic components and sensors
	2	0 V DC power voltage, for valve and output
	3	0 V DC power supply voltage for electronic components and sensors
	4	24 V DC load power supply voltage, for valve and output
	5	FE

Communication module:Modbus-RTU

Connector:1xDB 9-pin / 1 xM12 5-pin



Communication connector:DB 9-PIN

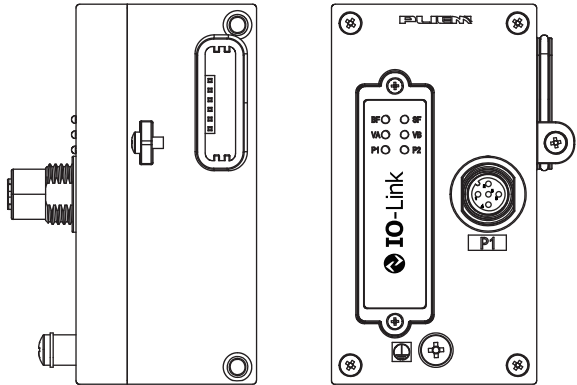
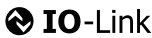
Cable distribution	NO.	Signal
	1	Logic grounding or communication grounding
	2	TxD+ (for RS422 connection, not applicable to RS485: output)
	3	TxD+ (Signal B (Rx/D/TxD+): Input/Output)
	4	RTS?(Request to Send (TTL Level) Output)
	5	GND (logic ground or communication ground)
	6	PWR(5V + 100Q series resistor: output)
	7	Ununited
	8	TXD- (Signal A (Rx/D/TxD-): Input/Output)
	9	TXD- (for RS422 connection, not applicable to RS485: output)

Power connector:M12 5-PIN A-coded

Cable distribution	NO.	Function
	1	24 V DC load power supply voltage, for electronic components and sensors
	2	0 V DC power voltage, for valve and output
	3	0 V DC power supply voltage for electronic components and sensors
	4	24 V DC load power supply voltage, for valve and output
	5	FE

Communication module:IO-Link

Connector:1 xM12 5-pin



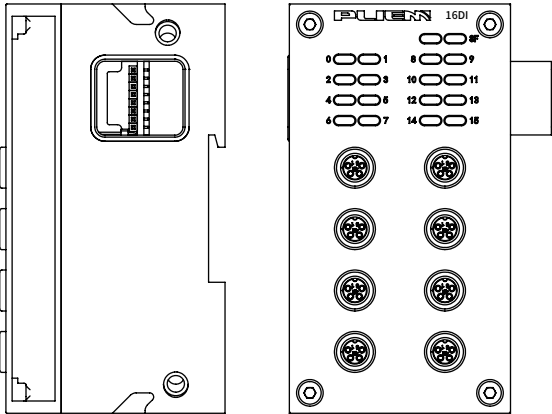
Power connector:M12 5-PIN A-coded

Cable distribution	NO.	Function
	1	24 V DC load power supply voltage, for electronic components and sensors
	2	0 V DC power voltage, for valve and output
	3	0 V DC power supply voltage for electronic components and sensors
	4	24 V DC load power supply voltage, for valve and output
	5	FE

Digital input module -16DI-M8

Signal type	Number of input signals	Attended mode
PNP	Two signals per channel, 8 channels	8 x M8 4-pin

※ For industrial Ethernet component parts and assembly instructions, please consult our technical services



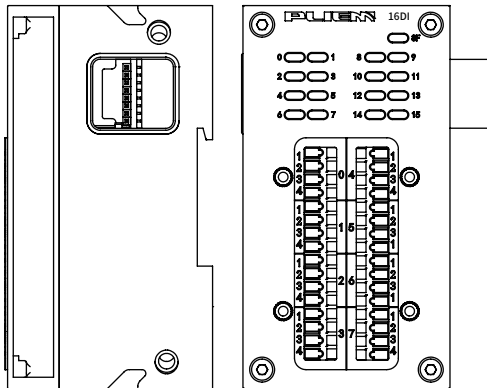
Input Module

Cable distribution	NO.	Function
	1	24V power supply
	2	input 1、 3、 5、 7、 9、 11
	3	0V power supply
	4	output 0、 2、 4、 6、 8、 10

Digital input module -16DI-MJ

Signal type	Number of input signals	Attended mode
PNP	Two signals per channel, 8 channels	32Pin(2*16)spring terminal

※ For industrial Ethernet component parts and assembly instructions, please consult our technical services



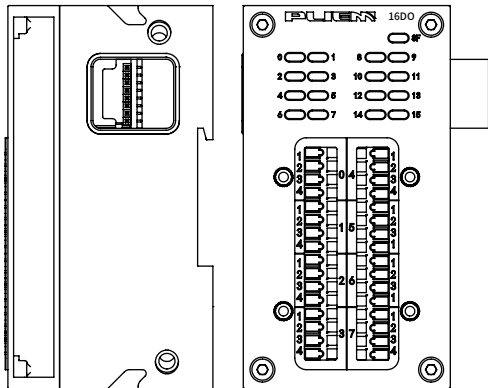
Input Module

Cable distribution	NO.	Signal
	1	24V power supply
	2	Digital Input 1
	3	Digital Input 2
	4	0V power supply

Digital input module -16DO-MJ

Signal type	Number of output signals	Attended mode
PNP	Two signals per channel, 8 channels	32Pin(2*16)spring terminal

※ For industrial Ethernet component parts and assembly instructions, please consult our technical services



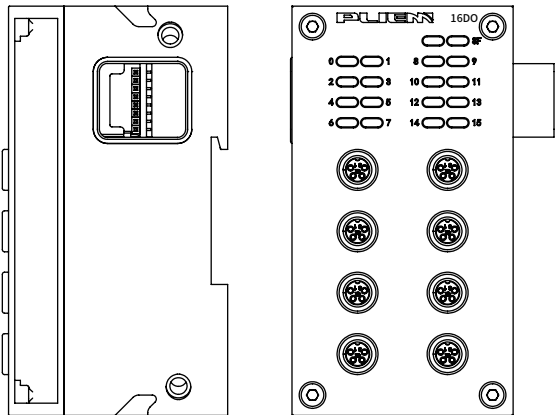
Output Module

Cable distribution	NO.	Signal
	1	24V power supply
	2	Digital Output 1
	3	Digital Output 2
	4	0V power supply

Digital output module -16DO-M8

Signal type	Number of output signals	Attended mode
PNP	Two signals per channel, 8 channels	8 x M8 4-pin

※ For industrial Ethernet component parts and assembly instructions, please consult our technical services



Output Module

Cable distribution	NO.	Function
	1	-
	2	Digital output 2
	3	0V power supply
	4	Digital output 1

► Order Data-Electrical Module

Order data-SVTP	Description	Number of order
	PROFINET M12*2	168101 VTX-V3S3-PN-P
	EtherNet/IP M12*2	1681202 VTX-V3S3-EP-P
	EtherCAT M12*2	168103 VTX-V3S3-EC-P
	IO-Link	168104 VTX-V3S3-OL-P
	Multipole Sub-D	168105 VTX-V3S3-MP-P
	CC-Link	168106 VTX-V3S3-CC-P
	PROFIBUS-DP	168107 VTX-V23S3-DP-P
	DeviceNet	168108 VTX-V3S3-DN-P
	Modbus-RTU	168311 VTX-V3S3-MT-P
	DI 16 module M8*8	531101 VTI-V3S3-D-P
	DO 16 module M8*8	541101 VTO-V3S3-D-P
	DI 16 module MJ	531102 VTI-V3S3-D-P-MJ
	DO 16 module MJ	541102 VTO-V3S3-D-P-MJ

► Electrical Accessories

Power Connector

	
Model	Model
VTCB-A-A4P-12DF-OP-0050	M12-F05T
Order number720221	Order number720225

Industrial Ethernet cable

		
Model	Model	Model
VTCB-D-D4P-12M-12M-0050	VTCB-D-D4P-12M-OP-0050	VTCB-D-D4P-12M-RJ-0050
Order number720210	Order number720212	Order number720214

IO Connection Cable and Connector

				
Model	Model	Model	Model	Model
VTCB-M8-M03T-0050	VTCB-M8-M04T-0050	M8-M03T	M8-M04T	VTCB-D-SUB25F-0050
Order number720254	Order number720248	Order number720245	Order number720243	Order number720229

Warn

This product is only suitable for industrial compressed air systems. Do not use these products if the pressure and temperature exceed the values listed in the "Technical parameters".

In non-industrial applications, life support systems or other applications not specified in the technical specifications, if a fluid other than specified is to be used, consult Pliem in advance.

In fluid power systems, components may fail through misuse, aging, or malfunction in various ways. System designers must consider failure modes of all components used in these systems and provide adequate protection against personal injury or equipment damage when such failures occur. If sufficient protective measures are not available, system designers must include clear warnings for end-users in the systems user manual. Both system designers and end-users should carefully review the special warnings provided in the product documentation.