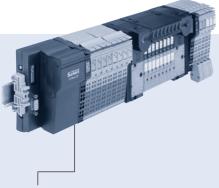


Remote Process Actuation Control System AirLINE - PHOENIX INLINE



Type 8644 can be combined with...

Type 8175

Sensors

 Fully compatible with Phoenix Inline System

- Combination of Fieldbus, pilot valves and I/O modules
- High flexibility
- Compact design

• High flow rate



Type 6212

Solenoid valves



Type 2012Process valves



Type 8630Valve controllers



Type 0498

Double pilot

controlled check

valve

The AirLINE System integrates high performance solenoid pilot valves, remote electronic I/O and fieldbus communication into a process actuation and control system that is both compact and extremely flexible. Its modular design allows fully customized, pre-mounted and tested solutions to exactly

Type 8032

Switches

meet all application needs including the integration of a local Mini PLC. Due to the full electronic and mechanical integration, the valve block can be added without the need of any tools or wiring.

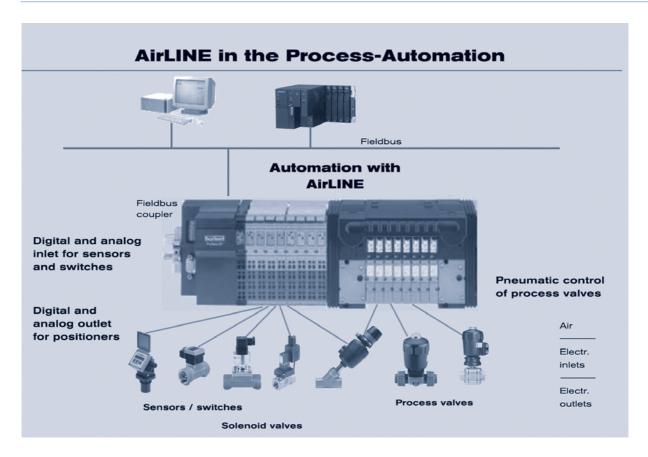
Specifications	Pilot valve type					
	0460, 6524, 6525	0461, 6526, 6527				
Mounting dimensions	11 mm	16.5 mm				
Circuit functions/ways	C (3/2)	C (3/2)				
	D (3/2)	D (3/2)				
	H (5/2)	H (5/2)				
	H (5/2) impulse	H (5/2) impulse				
	L (5/3) in middle position all ports closed	L (5/3) in middle position all ports open				
	N (5/3) in middle position all ports vented	N (5/3) in middle position all ports vented				
Flow rate	300 l/min (200 l/min for functions H impulse, L and N)	700 I/min (500 I/min for functions H impulse, L and N)				
Pressure range	Vac. up to 10 bar	Vac. up to 10 bar				
Module types	2x and 8x (optional integrated check valves and p-shut- off-valve)	2x and 4x (optional integrated check valves) Combination of 11 mm modules (3 valves) and 16.5 mm modules is possible				
Max. number of modules	Depending on application	Depending on application				
Max. number of valves functionalities	64 (by use of Type 0460 & Type 6524 2 x 3/2-way valve: 32)	32 (by use of Type 0461: 24)				
Pneumatic intermediate supply module	necessary after 24 valve functions; with 2 x 3/2-way valve: necessary after 16 valve functions	necessary after 16 valve functions				

to be continued on page 2



Specifications	Pilot valve type				
	0460, 6524, 6525	0461, 6526, 6527			
Fieldbus type	PROFIBUS DP, INTERBUS, DeviceNet, CANopen, Ethernet, others on request	PROFIBUS DP, INTERBUS, DeviceNet, CANopen, Ethernet, others on request			
Electrical modules	PHOENIX INLINE	PHOENIX INLINE			
Digital modules	2 or 4 inputs 2 or 4 outputs, others on request	2 or 4 inputs 2 or 4 outputs, others on request			
Analog modules	2 or 4 inputs (0-10 V, 0-20 mA, 4-20 mA, RTD, TC) 2 outputs (0-10 V, 0-20 mA, 4-20 mA) others on request	2 or 4 inputs (0-10 V, 0-20 mA, 4-20 mA, RTD, TC) 2 outputs (0-10 V, 0-20 mA, 4-20 mA) others on request			
Operating voltage	24 V/DC	24 V/DC			
Permissible voltage tolerance	+20%/-15% (by use of Type 0460: ±10%)	+20%/-15% (by use of Type 0461: ±10%)			
Residual ripple	1 Vss	1 Vss			
Rated power per valve	1 W (0.5 W nominal power after 120 ms)	1 W (0.5 W nominal power after 120 ms)			
Rated current per valve	43 mA (28 mA holding current after 120 ms)	86 mA (56 mA holding current after 120 ms)			
Temperatures					
Operating	0 to +55°C (by use of Type 0460: 0 to +50°C)	0 to +55°C (by use of Type 0461: 0 to +50°C)			
Storage	-20 to +60°C	-20 to +60°C			
Rating	IP20 IP65 in closed field housing	IP20 IP65 in closed field housing			
Approvals for hazardous areas	on request	on request			

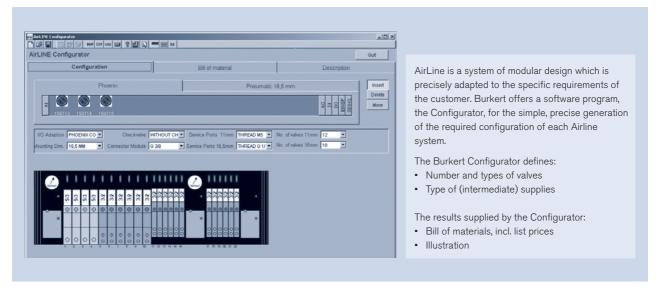
Application example



8644 PHOENIX INLINE



Configuration software

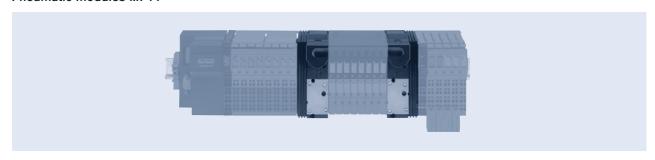


For more information consult individual datasheets, downloadable at www.burkert.com

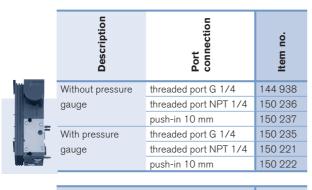


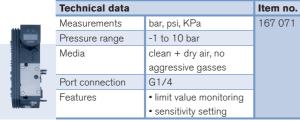
Pneumatic modules and electrical interfaces for modules PHOENIX CONTACT INLINE

Pneumatic modules MP11

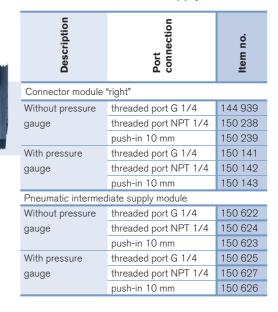


Connector module "left"



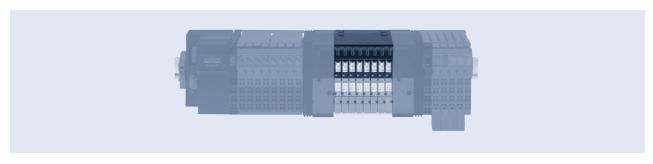


Connector module "right" and Pneumatic intermediate supply module



Pneumatic module and electrical interfaces for modules PHOENIX CONTACT INLINE

AirLINE valve modules





Pneumatic basic module, electrical basic module and pilot valves

2 valves wide/2 valves wide with 2 x 3/2-way valve



Service port 2 (A), 4 (B) Threaded port M5 Threaded port M7 Push-in Ø 6 mm Push-in Ø 1/4" Push-in Ø 5/32"

Service port 2 (A), 4 (B) Threaded port M5 Threaded port M7 Push-in ø 6 mm Push-in ø 1/4* Push-in ø 5/32*

8 valves wide/8 valves wide with 2 x 3/2-way valve

Further pneumatic accessories

Typ 0498



Double pilot controlled check Valve

Available options on request

- Check valves in R, S and P-shut
- Covering plate for spare channels
- Channel separation plugs to build different pressure areas

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11mm width per station: Multi-way solenoid valve Types 6524 and 6525



The solenoid valve Types 6524 and 6525 consist of a pneumatic valve body fitted with Type 6104 rocker pilot valve. The rocker principle allows switching of high pressure at low power consumption and fast response times. The pilot valves are equipped with manual override as a standard.

The $2\times3/2$ -way valve version is the combination of two pilot rocker solenoid valves type 6104 and a pneumatic seat valve.

Specification	3/2-way valve	2 x 3/2-way valve			
Body material	PA (polyamide)				
Seal material	FPM, NBR				
Media	Lubricated and non-lubricated dry air, neutral gases (5 μm-Filter)				
Port connection	Flange for MP11				
Manual override	As a standard feature				
Voltage	24 V DC				
Nominal power	1 W	2 x 1 W with reduction of power consumption			
Duty cycle	Continuous operation (100% ED)				
Elec. connection on valve	Rectangular plug 2-pole Rectangular plug 3-with raster 5.08 mm with raster 2.54 mm				
Mounting	With 2 screws M2 x 20	With 2 screws M2 x 28			
Installation position	As required, preferably with	n pilot valve upright			
Flow rate: QNn value air [I/min]	Measured at +20°C, 6 bar pressure at valve inlet and 1 bar pressure difference				
Pressure ranges [bar]	Measured as overpressure to the atmospheric pressure				
Response times [ms]	Measured according to ISO 12238				

Order chart for valves

u u			<u>o</u>	Respons	e times		
Circuit function	Orifice [mm]	QNn value air [I/min]	Pressure range [bar]	Opening [ms]	Closing [ms]	Voltage/ Frequency [V/Hz]	Item no.
Circuit function C	4	300	Vac7	15	20	24 V DC	153 958
12 10 10			1-7 1)	15	20	24 V DC	150 333
1 3			2.5-7	12	20	24 V DC	144 933
3/2-way valve, servo-assisted in de-energized position port 2 to atmosphere			2.5-10	15	28	24 V DC	148 227
Circuit function D 2.	4	300	1.0-7 1)	12	20	24 V DC	150 334
10 \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \			2.5-7	12	20	24 V DC	144 934
3/2-way valve, servo-assisted in de-energized position port 2 pressurized			2.5-10	15	28	24 V DC	152 139
Circuit function H	4	300	1.0-7 1)	15	20	24 V DC	150 335
14 14 14 12			2.5-7	15	20	24 V DC	144 935
5/2-way valve, servo-assisted in de-energised position port 1 connected to port 2, port 4 exhausted			2.5-10	20	28	24 V DC	150 610
Circuit function C	4	300	1.0-7 1)	12	20	24 V DC	170 269 2)
12 11 3 10			2.5-7	12	20	24 V DC	170 268 2)
2 x 3/2-way valve, servo-assisted in de- energized position port 2/4 to atmosphere							

¹⁾ Version with auxiliary air.

²⁾ Version with integrated reduction of power consumption



11 mm width per station: Multi-way solenoid valve Types 0460



The solenoid valve Type 0460 consists of a pneumatic valve body fitted with a double coil pilot valve. The principle allows switching of high pressures together with low power consumption and fast response times.

All valves are equipped with manual override as a standard.

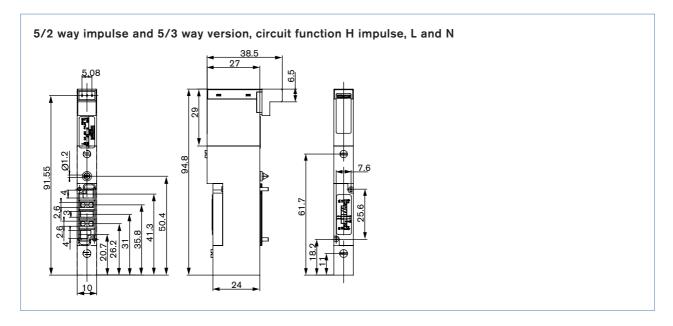
Technical data	
Body material	Aluminium
Seal material	NBR
Media	Lubricated and non-lubricated dry air, neutral gases (5 µm-filter recommended)
Port connection	Flange
Pneumatic module	MP11
Supply port 1 (P), 3 (R), 5 (S)	G 1/4 NPT 1/4 Push-in connection Ø 10 mm
Service port 2 (A), 4 (B)	Push-in connection Ø 6 mm Push-in connection Ø 1/4" Push-in connection Ø 4 mm = ø 5/32" M5 M7
Voltage	24 V DC
Electrical connection on valve	Rectangular plug
Manual override	Standard
Flow rate: QNn-value air I/min]	Measured at +20°C, 6 bar pressure at valve inlet and 1 bar pressure difference
Pressure ranges [bar]	Measured as overpressure to the atmospheric pressure
Response times [ms]	Measured according to ISO 12238

Ordering chart valves

					Response t	imes	
Circuit function	Orifice [mm]	Q _{Nn} -value air [I/min]	Pressure range [bar]	Nominal power [W]	Opening [ms]	Closing [ms]	Item no.
H 14 12 12 5 1 3 5/2-way valve, servo-assisted impulse version	2.5	200	2.0-7.0	1	15	15	154 183
L 14 W T T T T T T T T T T T T T T T T T T	2.5	200	2.0-7.0	1	15	20	154 184
N 14 W 12	2.5	200	2.0-7.0	1	15	20	154 185

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Dimensions [mm]





16.5mm width per station: Multi-way for solenoid valve Types 6526 and 6527



The solenoid valve Types 6526 and 6527 consist of a pneumatic valve body fitted with Type 6106 rocker pilot valve. The rocker principle allows switching of high pressure at low power consumption and fast response times. The pilot valves are equipped with manual override as a standard.

Specification				
Body material	PA (polyamide)			
Seal material	NBR			
Media	Lubricated and non-lubricated dry air, neutral gases (10 μm filter)			
Port connection	Flange for MP12			
Manual override	Standard			
Voltage	24 V DC			
Nominal power	2 W, 1W			
Duty cycle	Continuous operation (100% ED)			
Elec. Connection on valve	Tag connector acc. to DIN EN 175301-803 (previously DIN 43650) Form C			
Mounting	With 2 screws M3x30			
Installation position	As required, preferably with pilot valve upright			
Flow rate: QNn value air [I/min]	Measured at +20°C, 6 bar pressure at valve inlet and 1 bar pressure difference			
Pressure ranges [bar]	Measured as overpressure to the atmospheric pressure			
Response times [ms]	Measured acc. to ISO 12238			

Order chart for valves

		a F	-		Respons	se times	ę														
Circuit	Orifice [mm]	QNn value a [I/min]	Pressure range [bar]	Nominal power [W]	Opening [ms]	Closing [ms] ³⁾	Voltage/Fre- quency [V/Hz]	Item no.													
C 2,	6	700	1.0 - 10 ¹⁾	2	20	12	24 V DC	156 842													
12 W ₁₀			1.0 - 10 ¹⁾	2	20	12	24 V DC	163 028 ²⁾													
			2.0 - 10	2	20	12	24 V DC	156 318													
3/2-way valve, servo-assisted in			2.0 - 10	2	20	12	24 V DC	158 944 ²⁾													
de-energized position port 2 to			2.0 - 8.0	1	20	17	24 V DC	156 840													
atmosphere					2.0 - 8.0	1	20	12	24 V DC	158 947 ²⁾											
D 2,	6	700	1.0 - 10 ¹⁾	2	12	20	24 V DC	157 672													
10 \\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\			1.0 - 101)	2	20	12	24 V DC	163 029 ²⁾													
			2.0 - 10	2	12	20	24 V DC	156 320													
3/2-way valve, servo-assisted in de-			2.0 - 10	2	20	12	24 V DC	158 946 ²⁾													
energized position port 2 pressurized																2.0 - 8.0	1	17	20	24 V DC	156 841
g			2.0 - 8.0	1	20	12	24 V DC	158 948 ²⁾													
H 4, 2	6	700	1.0 - 10 ¹⁾	2	20	12	24 V DC	156 828													
14			1.0 - 101)	2	20	12	24 V DC	163 030 ²⁾													
51 <u>3</u>			2.0 - 10	2	20	12	24 V DC	156 337													
5/2-way valve, servo-assisted in de-			2.0 - 10	2	20	12	24 V DC	158 942 ²⁾													
energized position port 1 connected			2.0 - 8.0	1	20	17	24 V DC	156 827													
to port 2, port 4 exhausted			2.0 - 8.0	1	20	12	24 V DC	158 943 ²⁾													

¹⁾ version with auxiliary air 2) electric connection with manual override.

 $^{^{\}rm 3)}$ closing time approx. 5 ms higher when used together with valve unit



16.5 mm width per station: Multi-way solenoid valve Type 0461



The solenoid valve Type 0461 consists of a pneumatic valve body fitted with a double coil pilot valve. The principle allows switching of high pressures together with low power consumption and fast response times. All valves are equipped with manual override as a standard.

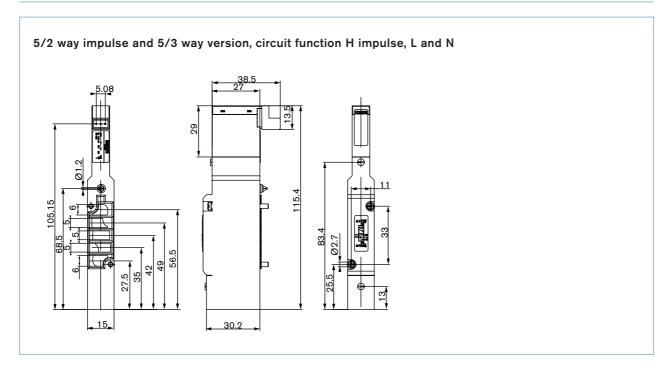
Technical data	
Body material	Aluminium
Seal material	NBR
Media	Lubricated and non-lubricated dry air, neutral gases (10 µm-filter recommended)
Port connection	Flange
Pneumatic module	MP12
Supply port 1 (P), 3 (R), 5 (S)	G 3/8 NPT 3/8
Service port 2 (A), 4 (B)	G 1/8 NPT 1/8 Push-in connection Ø 8 mm
Operating voltage	24 V DC
Electrical connection on valve	Rectangular plug
Manual override	Standard
Flow rate: QNn-value air	Measured at +20°C, 6 bar pressure at valve
l/min]	inlet and 1 bar pressure difference
Pressure ranges [bar]	Measured as overpressure to the atmospheric pressure
Response times [ms]	Measured according to ISO 12238

Ordering chart valves

					Response t	imes	
Circuit function	Orifice [mm]	Q _{vin} -value air [I/min]	Pressure range [bar]	Nominal power [W]	Opening [ms]	Closing [ms]	Item no.
H 5/2-way valve, servo-assisted impulse version	6	500	2.5-7.0	1	20	30	156 766
L 14 W 12 51 3 5/3-way valve, servo-assisted in middle position all ports blocked	6	500	2.5-7.0	1	15	50	156 767
N 14 W 12 51 3 5/3-way valve, servo-assisted in middle position port 2 and 4 exhausted	6	500	2.5-7.0	1	15	50	156 768

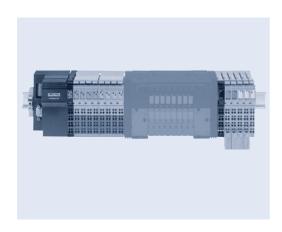
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Dimensions [mm]





Electronic modules PHOENIX CONTACT INLINE



General specifications						
Voltage supply	24 V/DC (+20%/-15%)					
Electrical insulation						
Logic - I/O	500 V/AC test voltage					
I/O - functional ground	500 V/AC test voltage					
Wire connection	Spring clamp terminals					
Local diagnostics on I/O segments						
Bus active	LED green on					
Comm power not present	LED green off					
Comm power not present						
with bus inactive	LED green (flashes at 0.5 Hz)					
I/O error	LED green (flashes at 2 Hz)					
Previous device faulty	LED green (flashes at 4 Hz)					
Dimensions (incl. connection terminal)	WxHxL					
Profibus DP coupler	91 x 120 x 71.5 mm					
InterBus-S coupler	48.8 x 120 x 71.5 mm					
Segments (1 wide)	12.2 x 120 x 71.5 mm					
(2 wide)	24.4 x 120 x 71.5 mm					
(4 wide)	48.8 x 120 x 71.5 mm					

Fieldbus modules (others on request)

Profibus DP/EN 51070; 12 MBaud; digital and analog signals



The Profibus DP fieldbus connects the AirLINE automation system to a Profibus DP network. The fieldbus coupler acts as a slave in the Profibus and a master in the lower level INLINE local bus.

The product is supplied with a disk containing the appropriate GSD (device master data) file for configuring the Profibus.

The INTERBUS diagnostics are supported by the Profibus DP fieldbus coupler, as are the typical diagnostics messages for the Profibus DP.

LED's facilitate accurate diagnostics at a local level.

Interface	Copper cable (RS-485), connected via SUB-B shield connector; supply electrically isolated, shielding directly connected with functional grounding
Current consumption (24 V DC supply) Without connected E/A terminals With max. no. of connected E/A terminals	< 100 mA 1.25 A
Max. total perm. curr. consumption of all E/A terminals Logic power (7.5 V DC) Analog supply (24 V DC)	≤2 A ≤0.5 A
Local diagnostics 24 V main circuit supply present (UM) 24 V segment circuit supply present (US) No communication on Profibus (BF) Error-indication number and type (FS / FN)	LED green LED green LED red LED red (2x)
Profibus data Number of devices per station Sum of all I/O data per station Max. fieldbus coupler current (for supplying the I/O module logic) Max. additional current (for supplying the analog terminals)	Max. 63 Max. 192 bytes 2 A at U L 0.5 A at U ANA
24 V main supply U M Connection method Recommended cable lengths	Spring clamp terminals Max. 30 m (do not route cable through outdoor areas)
Safety devices Overvoltage Polarity reversal Provide an external fuse for the 24 V area	Yes Yes



Electronic modules PHOENIX CONTACT INLINE

DeviceNET; 125, 250 and 500 kBaud; digital and analog signals

Diagnostic LED indicators Network status Module status Logic supply status Segment power (US) Main power (UM)	Indicates DeviceNET TM communication Indicates module or inline station Indicates proper power to the local bus Indicates proper 24 V/DC segment I/O power Indicates proper 24 V/DC main power
Supported DeviceNETTM features I/O peer to peer Explicit peer to peer messaging Configuration consistency Faulted node recovery Baud rates 125K 250K 500K I/O slave messaging Polled Cyclic Change of state Bit strobe	Yes
24 V main supply U M Connection method Recommended cable lengths	Spring clamp terminals Max. 30 m (do not route cable through outdoor areas)
Safety devices Surge voltage Polarity reversal Provide an external fuse for the 24 V area	Yes Yes

The DeviceNETTM fieldbus coupler allows the AirLINE system to communicate on a DeviceNETTM network as a group 2 slave.

The coupler is housed in a 4-module width package that contains the front panel wiring and diagnostic indicators for both the local bus and DeviceNETTM communications.



Electronic modules PHOENIX CONTACT INLINE

Fieldbus modules (others on request)

InterBus-S: 500 kBaud; digital and analog signals



The INTERBUS terminal connects the AirLINE system with the INTERBUS network.

The bus terminal has the following functions within an AirLINE system:

- Refreshing the remote bus signals
- Decoupling the outgoing remote bus of the connected I/O modules using a software command
 Supplying the connected I/O modules using an
- Supplying the connected I/O modules using an integrated power supply unit
 Connection to functional earth when installed on the
- Connection to functional earth when installed on th mounting rail

Interfaces INTERBUS remote bus (I/O) Supply voltage INTERBUS local bus	2 x 6 pos. INLINE shield connector 8 pos. INLINE input connector INLINE potential distribution
Current consumption Without connected IB IL - I/O terminals	Approx. 100 mA
Max. total perm. curr. consumption of all I/O terminals Logic power (7.5 V DC) Analog supply (24 V DC)	≤2 A ≤0.5 A
Local diagnostics Remote bus active (BA) Remote bus connection OK (RC) Outgoing remote bus disabled (RD) Local bus branch disabled (LD) Local bus error (E) Communication power (UL) Supply voltage segment circuit (SG) Operating voltage (US)	LED green LED green LED red LED red LED red LED green LED green LED green LED green
INTERBUS data Max. distance from next remote bus station Number of connectable INLINE terminals (without any additional input terminals)	400 m 63 (note permissible current consumption)
Programmable functions Local bus branch disabled Local bus reset Local bus disabled Remote bus disabled Remote bus reset	Yes Yes Yes Yes Yes
Local functions Reconfiguration input	A push button can be connected via an 8 pos. INLINE connector
General data Polarity reversal protection	Yes
Connector set for bus terminal	1

AS-Interface Gateway



This AS-Interface gateway allows to operate an ASi 2.1 system as a subsystem AirLINE. The configuration of ASi is done on site by means of pushbuttons directly on the gateway, or by means of parameterisation via software. The gateway has a 2-digit, 7-segment display to indicate status and diagnostics information.

As ASi master, the gateway can operate up to 62 ASi slaves according to the new specification 2.1.



Accessory modules (others on request)

Power terminal block - fused



Max. nominal current	10 A
Local diagnostics Operating voltage display (US)	LED green
General data Polarity reversal protection Surge voltage protection Overload protection	Yes Yes No
Fuse (fused version)	6.3 A

Power and segment terminals provide the power supply for an Interbus station. The power terminal is used to supply the I/O circuit. The supply enables the electrical isolation of the previous isolated group.

Power terminals are available with or without integrated fuses.

Segment terminal block - fused/not fused



Interfaces Supply voltage INTERBUS local bus	Via voltage jumper Voltage jumper
Max. nominal current	10A
Local diagnostics Operating voltage display	Yes
General data Polarity reversal protection Surge voltage protection Overload protection	No No No

Power and segment terminals provide the power supply for an Interbus station. The power terminal is used to supply the I/O circuit.

The segment terminal can be used to group any adjacent terminals within a station into separate segments.

Segment terminals are available with or without integrated fuses.

Remote I/O modules (others on request)

Digital input module DI - 2 and 8 channel



Supply	
Current consumption	Approx. 30 mA (2 channel)
	Approx. 50 mA (8 channel)
I/O voltage	24 V/DC (via voltage jumper)
Residual ripple	5%
Voltage tolerance	19.2 V up to 30 V/DC (ripple included)
Drawing initiator supply	Segment circuit
Inputs	
Number of inputs	2 or 8
Connection method	4 wire
Input current per channel	5 mA at 24 V/DC
Permissible range	-30 V < U in < +30 V /DC
Nominal current	"1" signal +15 V ≤ U in ≤ +30 V/DC
	"0" signal -30 V ≤ U in ≤ +5 V/DC
Delay time at signal change	In μs range

Digital INTERBUS INLINE input terminals are designed for the connection of digital signals such as those generated by limit switches, push buttons or proximity switches.



Remote I/O modules (others on request)

Digital output module DO - 2 and 8 channel



Supply		
Logic supply (via voltage jumper)	7.5 V DC	
Current consumption	33 mA (2 channel)	
	60 mA (8 channel)	
Periphery voltage	24 V DC	
Ripple	5%	
Voltage range	19.2 to 30 V DC	
Output voltage extraction	Segment circuit	
Diagnostic messages via the bus		
Short circuit, overload of an output		
,	Yes	
Inputs		
Number of outputs	2 or 8	
Connection method	4 wire	
Output voltage	Us - 1 V	
Signal delay	In µs range 500 mA (2- and 8 channel)	
Output current	Max. / output 4 A (8 channel)	
·	Max. / termial 1 A (2 channel)	
	12 W (2- and 8 channel)	
Nominal load	Ohmic 12 W (2- and 8 channel)	
Nominal load	Lamp	
Overload protection	Yes	
Short circuit protection of outputs	Yes	

Digital INTERBUS INLINE output terminals are designed for the connection of digital actuators such as solenoid valves, contactors or optical indicating facility.

Analog input module AI - 2 channel; voltage and current signals



Supply Logic supply (via voltage jumper) Current consumption Analog voltage (via voltage jumper) Current consumption	7.5 V DC 45 mA 24 V DC 12 mA
Diagnostics messages via the bus Overrange Error of internal I/O voltage	Yes Yes
Line interrupt detection	Yes, for the range of 4-20 mA
Inputs Number of inputs Connection method Input range Input resistance Measurement principle Representation of measured value Measured value resolution A/D conversion time per channel Process data update 3 dB cut-off frequency Basic error limit	2, single ended 2-wire (shielded) 0–10 V, \pm 10 V; 0–20mA, 4–20mA, 20mA 220 Ω (V signals); 50 Ω (mA signals); Successive approximation 16 bits two's complement 16 bits (15 bits + sign) 120 μ s < 1.5 ms 15 Hz/ 40 Hz without averaging 0.015 %

Analog INTERBUS input terminals are used for the connection of standard sensors for detecting current or voltage signals.

Terminal features include:

- High accuracy
- Fast measurementVery high noise and common mode suppression
- 16 bit resolution

RTD and TC inputs on request.



Remote I/O modules (others on request)



Supply Logic supply Current consumption Analog voltage Current consumption	7.5 V DC 40 mA 24 V DC 65 mA
Outputs Number of outputs Connection method Output range Load impedance Representation of output values DAC resolution A/D conversion time per channel Basic error limit Error type Transient protection of outputs	1 2 wire 0-10 V, 0-20mA, 4-20mA >2 kΩ 16 bit 16 bit <100 μs 0.05 % U OUT±0.5% I OUT±0.8% Yes

Analog output modules are used in applications which require the control of analog actuators.

Normal current and voltage output ranges can be configurated individually for these terminals.

All analog signals are provided with a resolution of 1.6 bit



Ordering chart fieldbus modules

Item Temporal Temporal Tempora Temporal	Description	Item no.
PROFIBUS DP	EN 51070; 12 MBaud; digital and analog signals	148 837
Interbus-S	EN 50254; digital and analog signals	150 697
DeviceNET	125-500 kBaud; digital and analog signals	on request
ASI Gateway	ASI master for up to 62 ASi slaves	on request

Ordering chart remote I/O modules

Item	Description	Item no.
DI 2 channel	24V/DC input	150 709
DI 8 channel	24 V/DC input	150 711
DO 2 channel	2.0 A	150 703
DO 8 channel	0.5 A	150 705
Al 2 channel	Thermocouple	150 714
Al 2 channel	RTD	150 715
Al 2 channel	0-20 mA, 4-20 mA, 0-1.0 V	150 713
AO 1 channel	0-10 V	150 708
AO 1 channel	0 – 20 mA, 4-20 mA, 0-10 V	150 707

Ordering chart accessory modules

lte T	Description	Item no.
Power terminal block	Fused	150 699
Segment terminal block	Fused	150 701
Segment terminal block	Not fused	150 700

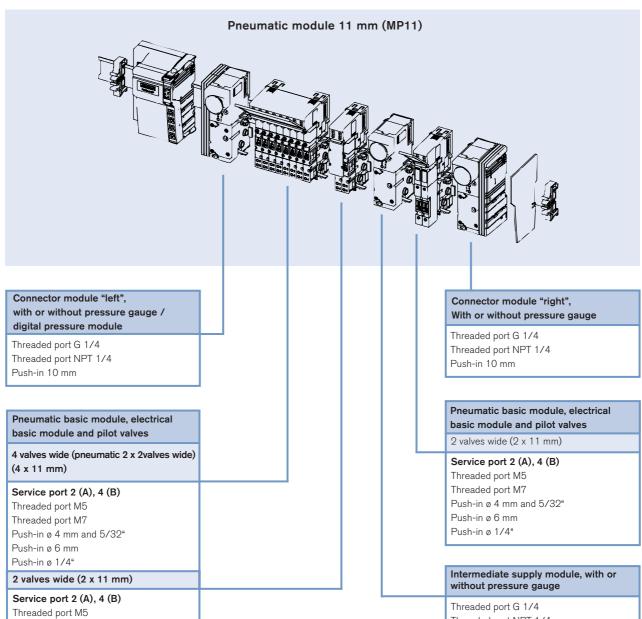
Threaded port M7

Push-in ø 6 mm Push-in ø 1/4"

Push-in ø 4 mm and 5/32"



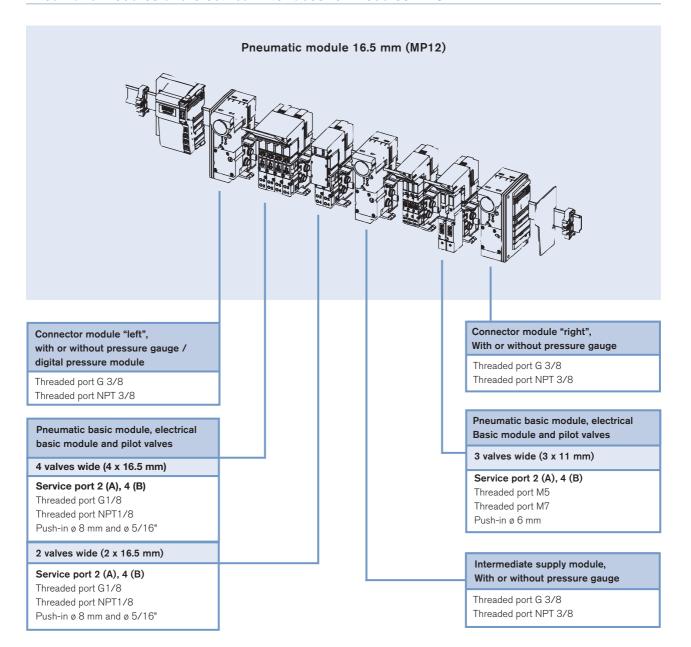
Pneumatic modules and electrical interfaces for modules PHOENIX INLINE



Threaded port G 1/4
Threaded port NPT 1/4
Push-in 10 mm



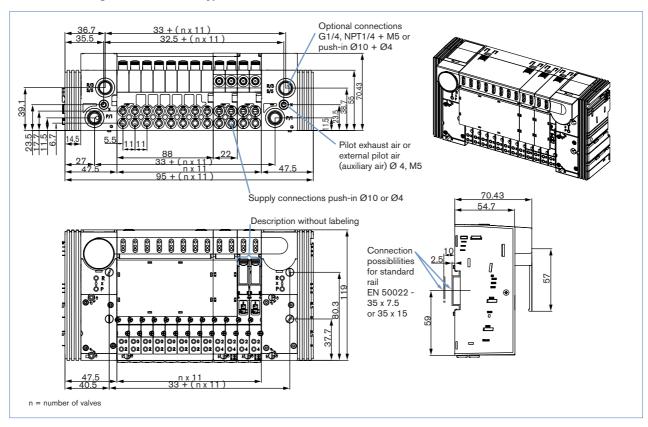
Pneumatic modules and electrical interfaces for modules PHOENIX INLINE



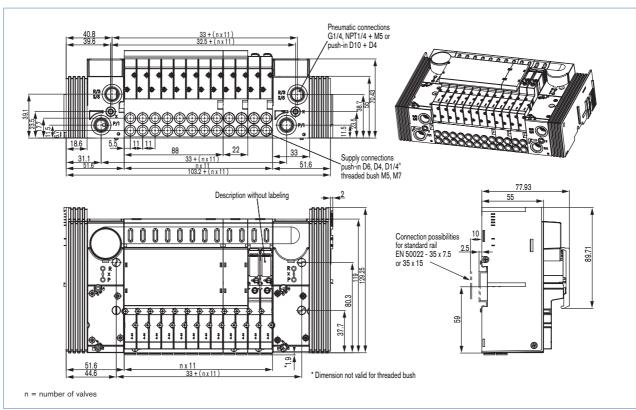


Dimensions [mm]

11 mm mounting dimensions for Type 6524 / 6525



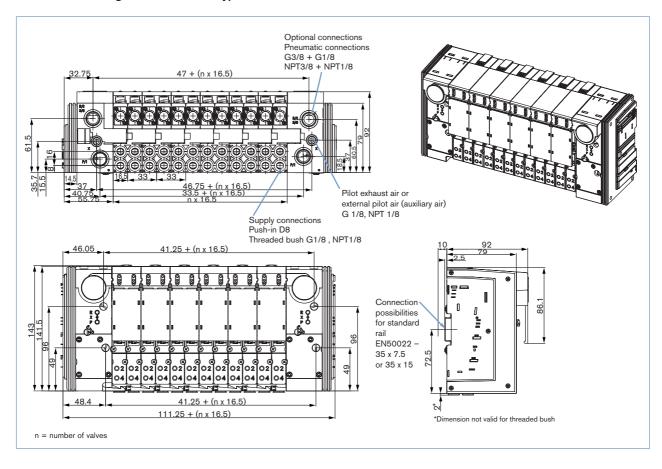
11 mm mounting dimensions for Type 6524 2 x 3/2-way valve





Dimensions [mm]

16.5 mm mounting dimensions for Type 6526 / 6527



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