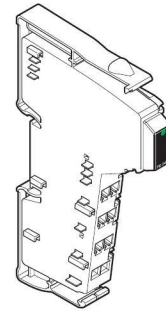


IB IL PD 24V (-PAC) IB IL PD GND (-PAC)

Terminal for 24 V or GND Potential Distribution

Data Sheet 687901

03/2003



6879A001



The IB IL PD ... and IB IL PD ... -PAC only differ in the scope of supply (see "Ordering Data" on page 6). Their function and technical data are identical.



These terminals do not have a protocol chip and are therefore not bus devices.



This data sheet is only valid in association with the IB IL SYS PRO UM E User Manual or the Inline System Manual for your bus system.

Features

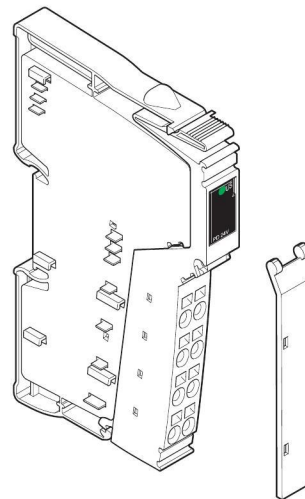
- Supply of the 24 V segment voltage U_S (IB IL PD 24V (-PAC))
- GND connections (IB IL PD GND (-PAC))

Function

The terminal is designed for use within an Inline station.

The **IB IL PD 24V (-PAC)** terminal supplies the 24 V supply voltage from the segment circuit (U_S). In this way, it can also provide the 24 V supply from U_S for sensors, which are connected to the IB IL 24 DI 32/HD terminal using 1-wire technology.

The **IB IL PD GND (-PAC)** terminal has eight GND connections. These can be used to connect actuators, which are connected to the IB IL 24 DO 32/HD terminal using 1-wire technology, to the internal GND.



6879A002

Figure 1 IB IL PD 24V-PAC terminal

687901

**PHENIX
CONTACT**

1

IB IL PD 24V (-PAC)/IB IL PD GND (-PAC)

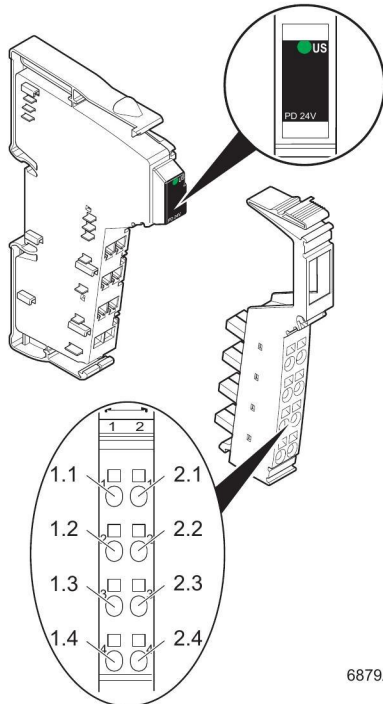


Figure 2 IB IL PD 24V (-PAC)
with appropriate connector

Function Identification

Black

Connector Labeling

IB IL PD 24V (-PAC): Red

IB IL PD GND (-PAC): Blue

Local LED Diagnostic Indicators

IB IL PD 24V (-PAC)

Des.	Color	Meaning
US	Green	24 V voltage (in the segment circuit U_S)

IB IL PD GND (-PAC)

No indicators

IB IL PD 24V (-PAC) Terminal Assignment

Terminal Point	Assignment
1.1, 2.1, 1.2, 2.2, 1.3, 2.3, 1.4, 2.4	Discharge points from the segment circuit U_S (+24 V)

IB IL PD GND (-PAC) Terminal Assignment

Terminal Point	Assignment
1.1, 2.1, 1.2, 2.2, 1.3, 2.3, 1.4, 2.4	Ground contact (GND) The reference potential is directly connected with the GND potential jumper.

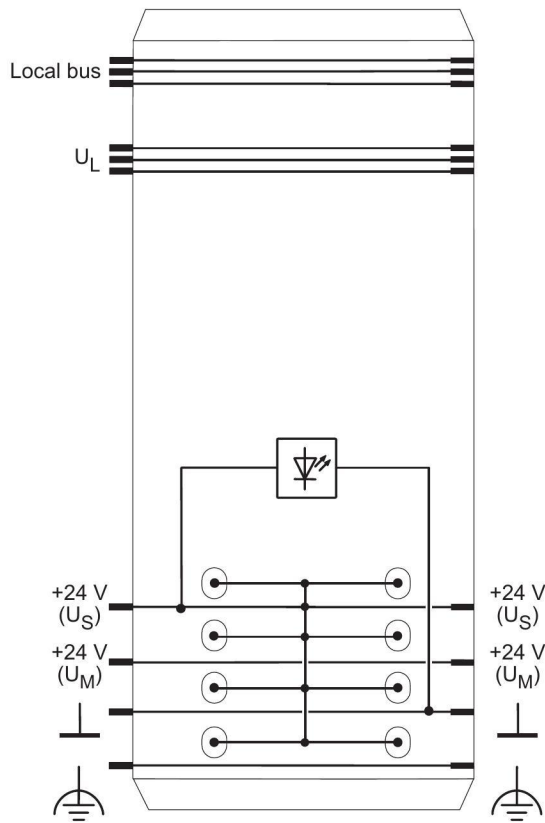


Observe the current carrying capacity

The maximum total current of the
potential jumpers (total current
 $U_M/U_S/GND$) must not exceed 8 A.

Internal Circuit Diagram

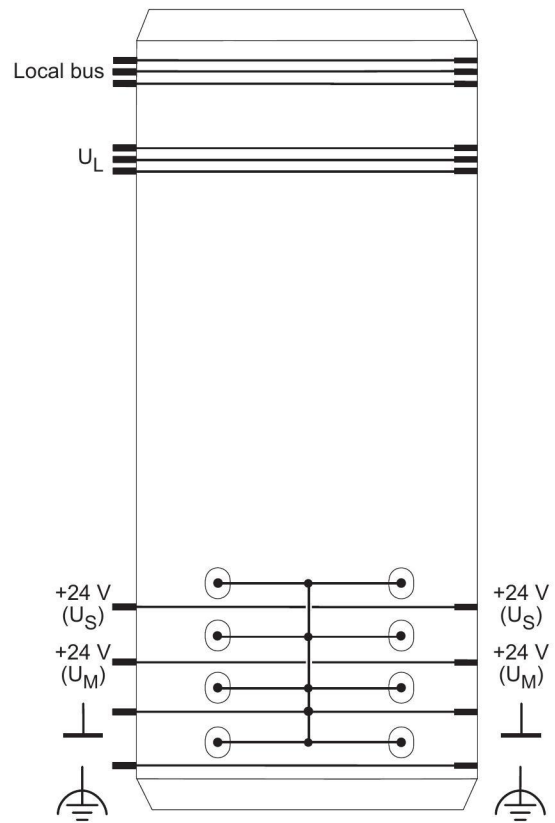
IB IL PD 24V (-PAC)



6879A004

Figure 3 Internal wiring of the terminal points

IB IL PD GND (-PAC)



6879A005

Figure 4 Internal wiring of the terminal points

Key:





Other symbols are explained in the IB IL SYS PRO UM E User Manual or in the Inline System Manual for your bus system.

Connection Example




For connection examples, please refer to the data sheets for the IB IL 24 DI 32-HD and IB IL 24 DO 32-HD terminals.

Technical Data

General Data	
Order Designation (Order No.)	IB IL PD 24V (-PAC) (28 62 99 0) IB IL PD GND (-PAC) (28 62 98 7)
Housing dimensions (width x height x depth)	12.2 mm x 120 mm x 71.5 mm (0.480 x 4.724 x 2.815 in.)
Weight	44 g (without connectors)
Permissible temperature (operation)	-25°C to +55°C (-13°F to +131°F)
Permissible temperature (storage/transport)	-25°C to +85°C (-13°F to +185°F)
	In the range from -25°C to +55°C (-13°F to +131°F) appropriate measures against increased humidity (> 85%) must be taken.
Permissible humidity (storage/transport)	75% on average, 85% occasionally
	For a short period, slight condensation may appear on the outside of the housing if, for example, the terminal is brought into a closed room from a vehicle.
Permissible air pressure (operation)	80 kPa to 106 kPa (up to 2000 m [6562 ft.] above sea level)
Permissible air pressure (storage/transport)	70 kPa to 106 kPa (up to 3000 m [9843 ft.] above sea level)
Degree of protection	IP 20 according to IEC 60529
Class of protection	Class 3 according to VDE 0106, IEC 60536

Safety Measures	
Overload/short circuit in the segment circuit	No
Surge voltage	No
Polarity reversal	No

Electrical Isolation/Isolation of the Voltage Areas	
	<p>To provide electrical isolation between the logic level and the I/O area, it is necessary to supply these areas via the bus terminal or via the bus terminal and a power terminal from separate power supply units. Interconnection of the 24 V power supply units is not permitted. Please pay attention to GND/PE connections on the power supply units (see also user manual).</p>



Common Potentials
The 24 V main voltage, 24 V segment voltage, and GND have the same potential. FE is a separate potential area.

Separate Potentials in the System Consisting of Bus Terminal/Power Terminal and I/O Terminal	
- Test Distance	- Test Voltage
5 V supply incoming remote bus/7.5 V supply (bus logic)	500 V AC, 50 Hz, 1 min.
5 V supply outgoing remote bus/7.5 V supply (bus logic)	500 V AC, 50 Hz, 1 min.
7.5 V supply (bus logic)/24 V supply (I/O)	500 V AC, 50 Hz, 1 min.
24 V supply (I/O)/functional earth ground	500 V AC, 50 Hz, 1 min.

Error Messages to the Higher-Level Control or Computer System
None

IB IL PD 24V (-PAC)/IB IL PD GND (-PAC)

Ordering Data

Description	Order Designation	Order No.
Terminal for 24 V potential distribution; including connectors and labeling field	IB IL PD 24V-PAC	28 62 98 7
Terminal for 24 V potential distribution	IB IL PD 24V	28 63 05 4
 <div style="background-color: yellow; padding: 5px; border: 1px solid black;"> The listed connector is needed for the complete fitting of the IB IL PD 24V terminal. </div>		
Connector with eight terminals, spring-cage connection (green, with color print); pack of 10	IB IL SCN-8/ 24V	28 63 03 8
Terminal for GND potential distribution; including connectors and labeling field	IB IL PD GND-PAC	28 62 99 0
Terminal for GND potential distribution	IB IL PD GND	28 63 06 7
 <div style="background-color: yellow; padding: 5px; border: 1px solid black;"> The listed connector is needed for the complete fitting of the IB IL PD GND terminal. </div>		
Connector with eight terminals, spring-cage connection (green, with color print); pack of 10	IB IL SCN-8/GND	28 63 04 1
"Configuring and Installing the INTERBUS Inline Product Range" User Manual	IB IL SYS PRO UM E	27 43 04 8



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