

Bus Connector for PROFIBUS, 90°



Bus connector for PROFIBUS with (l.) and without (r.) prog. device connector

Features

- Metalized housing
- No loosable parts
- Integrated terminating-resistor
- 90° cable-outlet
- Small housing
- Screw terminals



The compact design of the bus connectors from the Systeme Helmholz GmbH makes them suitable for use in all Siemens CPU types.

A slide switch sets whether the connector will be used as a node or end of segment. The switch can also be operated when the connector is plugged. The switch setting is clearly visible.

The connector must be used as a node („OFF“) when the incoming bus (A1, B1) and the outgoing bus (A2, B2) are to be interconnected. This deactivates the terminating resistors.

The connector must be set as a segment end (“ON”), on the first and last (extreme) stations of the segment. In that case the terminating resistors are connected on the incoming bus, the outgoing bus is disconnected.

Ordering Data

	Order-No.
Bus connector for PROFIBUS without prog. device connector 90° with prog. device connector 90°	700-972-0BA12 700-972-0BB12
Stripping tool for PROFIBUS	700-972-6AA00

The PROFIBUS connectors are also available in boxes containing 10 or 50 pieces.

Technical Data

Programming device connector Order No. 700-972-0BB12 Order No. 700-972-0BA12	yes no
Dimensions (LxWxH mm)	64 x 40 x 17
Weight	approx. 40 g
Outgoing cable	vertical outgoing cable suitable for fast-connect stripping tool
Terminating resistor	Resistor combination integrated and connectable with slide switch
Transmission rate max.	12 Mbit/s
Interfaces PROFIBUS station	SUB-D connector, 9-way
PROFIBUS cable	4 terminals for wires up to 1.0 mm ²
Current consumption	4.75 ... 5.25 V DC (must come from connected equip.)
Current consumption max.	12.5 mA
Permissible ambient conditions - operating temperature - transport/storage temperature - relative humidity max.	0°C ... +60°C -25°C ... +80°C 75% at +25°C
Degree of protection	IP 20

Bus Connectors for PROFIBUS 90° with diagnostic LEDs



Bus Connectors for PROFIBUS with diagnostic LEDs

The PROFIBUS diagnostic connector can be used to connect a PROFIBUS network in which the user can check the status of the bus system at any time at a glance.

The three built-in LEDs with the easily distinguished colors blue, green, and orange indicate the most important states of the PROFIBUS network at each station. The state of the terminating resistor (orange), whether bus activity is in progress (green), and whether the station addressed is participating in bus traffic (blue) are all indicated.

This means errors, such as bus interruptions, missing or incorrectly connected terminating resistors, and malfunctioning or failed bus stations can be detected immediately.

The PROFIBUS diagnostic connector with screw terminals can be supplied with or without a programming (PG) device connector.

Features

- 3 LEDs status displays
- Indicates bus operation, station transmitting, terminating resistor inserted
- Screw terminals
- Integrated terminating resistors
- No loosable parts
- Small housing



Ordering Data	
	Order-No.
Bus connector for PROFIBUS with diagnostic LEDs	
without prog. device connector 90°	700-972-7BA12
with prog. device connector 90°	700-972-7BB12
Stripping tool for PROFIBUS	700-972-6AA00

The PROFIBUS connectors are also available in boxes containing 10 or 50 pieces.

Technical Data	
Programming device connector	yes
Order No. 700-972-7BB12	no
Order No. 700-972-7BA12	
Dimensions (LxWxH mm)	64 x 40 x 17
Weight	approx. 40 g
Outgoing cable	vertical outgoing cable suitable for fast-connect stripping tool
Terminating resistor	Resistor combination integrated and connectable with slide switch
Transmission rate max.	12 Mbit/s
Interfaces	
PROFIBUS station	SUB-D connector, 9-way
PROFIBUS cable	4 terminals for wires up to 1.0 mm ²
Current consumption	4.75 ... 5.25 V DC (must come from connected equip.)
Current consumption max.	35 mA
Permissible ambient conditions	
- operating temperature	0°C ... +60°C
- transport/storage temperature	-25°C ... +80°C
- relative humidity max.	75% at +25°C
Degree of protection	IP 20

Bus Connectors for PROFIBUS, 35°



Bus connector 35° for PROFIBUS

The 35° bus connector for PROFIBUS is a further component in our range of connectors providing you with low-cost, compatible alternatives for your automation.

The bus connectors are used to connect a PROFIBUS node to the PROFIBUS cable. The connector is quickly mounted and features integrated terminating resistors.

The Systeme Helmholz GmbH offers the bus connector with an 35° cable outlet and for transmission rates up to 12 Mbaud.

Features

- Metalized housing
- No loosable parts
- Integrated terminating resistor
- 35° cable outlet
- Small housing
- Screw terminals



Ordering Data	
	Order-No.
Bus connector for PROFIBUS	
35° cable outlet, without prog. device connector	700-972-0BA41
35° cable outlet, with prog. device connector	700-972-0BB41

The PROFIBUS connectors are also available in boxes containing 10 or 50 pieces.

Technical Data	
Dimensions 35°, (LxWxH mm)	54 x 40 x 17
Weight	approx. 40 g
Outgoing cable, 35°	angled outgoing cable
Outgoing cable axial	axial outgoing cable, suitable for fast-connect stripping tool
Terminating resistor	Resistor combination integrated and connectable with slide switch
Transmission rate	max. 12 Mbit/s
Interfaces	
PROFIBUS station	SUB-D connector, 9-way
PROFIBUS cable	4 terminals for wires up to 1.0 mm ²
Current consumption	DC 4.75 ... 5.25 V (must come from connected equip.)
Permissible ambient conditions	
- operating temperature	0°C ... +60°C
- transport/storage temperature	-25°C ... +75°C
- relative humidity	max. 75% at +25°C
Degree of protection	IP 20

Bus Connectors for PROFIBUS axial



Axial bus connectors for PROFIBUS

Features

- Metalized housing
- Integrated terminating resistor
- No loosable parts
- 180° cable outlet
- Screw terminals



The axial bus connector for PROFIBUS is a further component in our range of connectors providing you with low-cost, compatible alternatives for your automation.

The bus connectors are used to connect a PROFIBUS node to the PROFIBUS cable. The connector is quickly mounted and features integrated terminating resistors.

The Systeme Helmholz GmbH offers the bus connector with an axial cable outlet and for transmission rates up to 12 Mbaud.

Ordering Data	
	Order-No.
Bus connector for PROFIBUS axial cable outlet	700-972-0CA12

The PROFIBUS connectors are also available in boxes containing 10 or 50 pieces.

Technical Data	
Dimensions axial, (LxWxH mm)	68 x 39,5 x 17
Weight	approx. 40 g
Outgoing cable, 35°	angled outgoing cable
Outgoing cable axial	axial outgoing cable, suitable for fast-connect stripping tool
Terminating resistor	Resistor combination integrated and connectable with slide switch
Transmission rate	max. 12 Mbit/s
Interfaces	
PROFIBUS station	SUB-D connector, 9-way
PROFIBUS cable	4 terminals for wires up to 1.0 mm ²
Current consumption	4.75 ... 5.25 V DC (must come from connected equip.)
Permissible ambient conditions	
- operating temperature	0°C ... +60°C
- transport/storage temperature	-25°C ... +75°C
- relative humidity	max. 75% at +25°C
Degree of protection	IP 20

Bus Connector for PROFIBUS with „Atex“ accreditation



Bus connector for PROFIBUS with Atex accreditation

Features

- Metalized housing
- No loosable parts
- Integrated terminating resistor
- 90° cable outlet
- Atex-accreditation (EN 50021 : 1999)
- Screw terminals



The bus connectors are used to connect a PROFIBUS station to the PROFIBUS cable. The connector is quickly mounted and has integrated, connectable terminating resistors.

The Systeme Helmholz GmbH offers the busconnector for usage in explosion hazardous areas of zone 2 (explosive gasatmosphere appears seldom and for very short time).

The bus connector is plugged directly onto the PROFIBUS interface (SUB-D connector, 9-way) of the PROFIBUS stations. The PROFIBUS cables are connected using 4-way screw terminals. The cable can be prepared for connection using the fast-connect stripping tool from Siemens.

Using a slide switch, you can set whether the connector is to be used as a node or segment end. The switch can also be operated when the connector is installed. The setting can be clearly seen.

Ordering Data	
	Order-No.
Bus connector for PROFIBUS without prog. device connector, Ex-Zone 2	700-973-0BA12
with prog. device connector, Ex-Zone 2	700-973-0BB12
Stripping tool for PROFIBUS	700-972-6AA00

Technical Data	
Programming device connector	yes no
Order No. 700-973-0BB12	yes
Order No. 700-973-0BA12	no
Dimensions (LxWxH mm)	64 x 40 x 17
Weight	approx. 40 g
Outgoing cable	vertical outgoing cable suitable for fast-connect stripping tool
Terminating resistor	Resistor combination integrated and connectable with slide switch
Transmission rate max.	12 Mbit/s
Interfaces	
PROFIBUS station	SUB-D connector, 9-way
PROFIBUS cable	4 terminals for wires up to 1,0 mm ²
Current consumption	4.75 ... 5.25 V DC (must come from connected equip.)
Current consumption max.	12.5 mA
Permissible ambient conditions	
- operating temperature	0°C ... +60°C
- transport/storage temperature	-25°C ... +80°C
- relative humidity max.	75% at +25°C
Degree of protection	IP 20

Bus Connectors for PROFIBUS with spring type terminals



Bus connector for PROFIBUS with spring type terminals

The bus connectors are used to connect a PROFIBUS station to the PROFIBUS cable. The connector is quickly mounted and has integrated, connectable terminating resistors.

The spring type terminal is suitable for solid conductors up to a cross section of 0.5 mm². The stripped conductors contacts automatically when inserted, for breaking the connection the orange lever must be pressed.

The bus connector is plugged directly onto the PROFIBUS interface (SUB-D connector, 9-way) of the PROFIBUS stations. The PROFIBUS cables are connected using 4-way screw terminals. The cable can be prepared for connection using the fast-connect stripping tool from Siemens.

Using a slide switch, you can set whether the connector is to be used as a node or segment end. The switch can also be operated when the connector is installed. The setting can be clearly seen.

Features

- Metalized housing
- No loosable parts
- Integrated terminating resistor
- 90° cable outlet
- Spring type terminal



Ordering Data	
	Order-No.
Bus connector for PROFIBUS	
without prog. device connector, with spring connection technique	700-982-0BA22
with prog. device connector, with spring connection technique	700-982-0BB22
Stripping tool for PROFIBUS	700-972-6AA00

Technical Data		
Programming device connector		
Order No. 700-973-0BA22		no
Order No. 700-973-0BB22		yes
Dimensions (LxWxH mm)		65 x 48 x 16
Weight		approx. 40 g
Outgoing cable		vertical outgoing cable suitable for fast-connect stripping tool
Terminating resistor		Resistor combination integrated and connectable with slide switch
Transmission rate	max.	12 Mbit/s
Interfaces		
PROFIBUS station		SUB-D connector, 9-way
PROFIBUS cable		4 terminals for wires up to 0.5 mm ²
Current consumption		DC 4.75 ... 5.25 V (must come from connected equip.)
Current consumption	max.	12.5 mA
Permissible ambient conditions		
- operating temperature		0°C ... +60°C
- transport/storage temperature		-25°C ... +80°C
- relative humidity	max.	75% at +25°C
Degree of protection		IP 20