

- PROFIBUS-PA output per EN 50 170/2 and IEC 61158-2; 31.25 kbit/s
- Installation in Zone 2 (KLD2-PL2-1.PA only)
- Up to 32 PROFIBUS PA I/Os can be connected to the segment
- Supply voltage supplied by Power Rail
- Nominal supply voltage 24 V DC
- Removable terminals and power rail

The Power Link Module forms a segment coupler with the KLD2-GT(2)-DP(R).xPA bridge station and can only operate with this component. The KLD2-PL-1.PA is installed within a safe area and the KLD2-PL2-1-PA can be mounted within Zone 2. The Power Link Module therefore provides an intrinsically safe interface per IEC 61158-2. The Power Link supplies PROFIBUS-PA I/Os powered by the bus.

The data transmission between Power Link Module and bridge station KLD2-GT(2)-DP(R).xPA Master 1 results by Power Rail. Is the Power Link Module connected to Master 2,3 or 4 of the bridge station a wire Link for the data transmission has to be made between Power Link Module terminals and bridge station terminals.

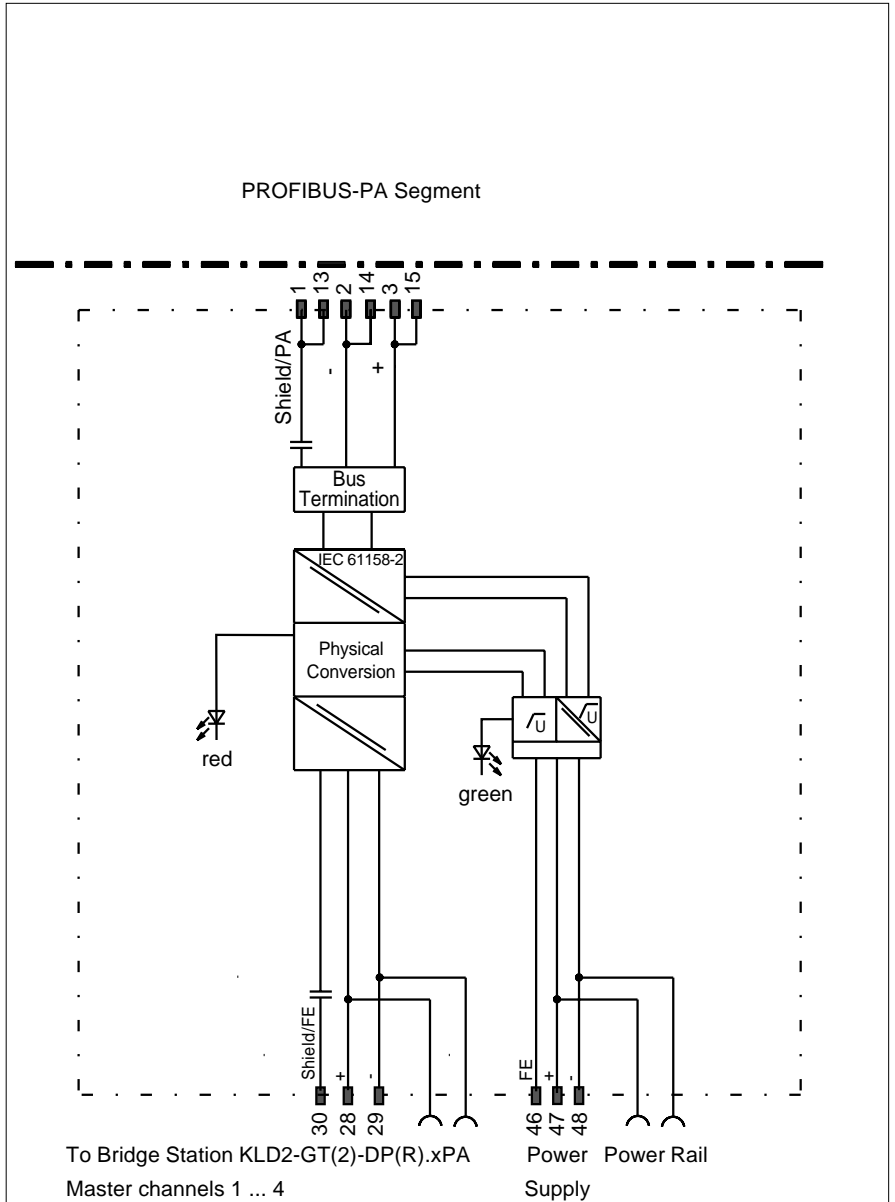
The communication is seamless. The Power Link Module does not have to be programmed.

The PROFIBUS-PA segment has a baud rate of 31.25 kbit/s in accordance with IEC 61158-2.

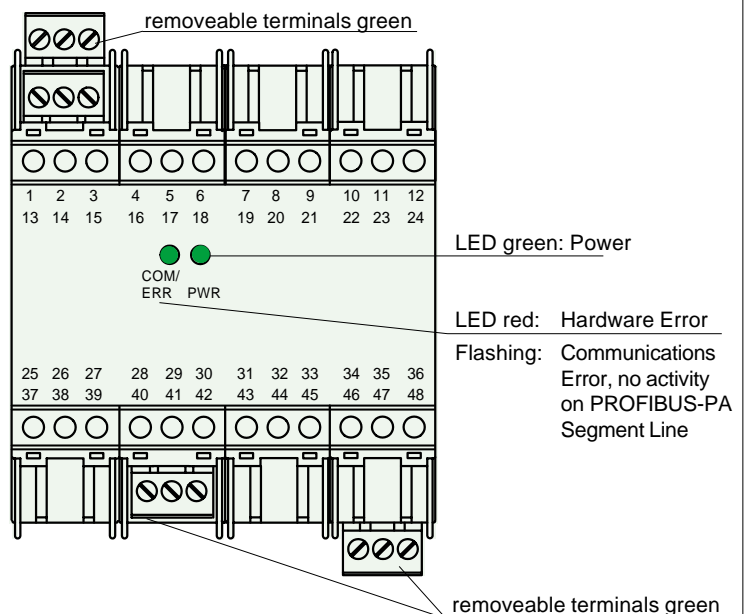
**Note:**

No external voltage have to be supplied to the Profibus PA segment terminals. This could lead to the destruction of the device.

Information on Installation of PROFIBUS PA can be taken from PNO PROFIBUS User Organisation Guideline.



**Frontansicht**



<b>Technical Data</b>	
<b>Power</b>	
Nominal voltage	DC 20 V ... 35 V
Ripple	≤ 10 %
Current consumption	790 ... 400 mA
<b>PROFIBUS-PA</b>	PROFIBUS-PA
Nominal voltage $U_s$	24 ... 26 V
Maximum current $I_s$	400 mA
Terminator impedance	100 Ohm, integrated
<b>Master channel</b>	
Baud rate	31.25 kbit/s for connection to KLD2-GT...
Cable length min.	852 m at maximum output current and cable type A, 0.8 mm <sup>2</sup> (AWG 18)
<b>Galvanic Isolation</b>	
PROFIBUS-PA - Master channel	Function isolation per EN 50 178, design isolation voltage is 50 V <sub>eff.</sub>
PROFIBUS-PA - power supply	Function isolation per EN 50 178, design isolation voltage is 50 V <sub>eff.</sub>
Master channel - power supply	Function isolation per EN 50 178, design isolation voltage is 50 V <sub>eff.</sub>
All circuits - FE (terminal 46)	Function isolation per EN 50 178, design isolation voltage is 50 V <sub>eff.</sub>
All circuits - screen/FF (terminals 1, 13)	Function isolation per EN 50 178, design isolation voltage is 50 V <sub>eff.</sub>
<b>Conformity to Standards</b>	
Environmental conditions	DIN IEC 60 721-2-1 1992
EMC	NAMUR NE 21 1998
	DIN EN 50 081-2 1994
	EN 61 326 1999
Isolation coordinates	EN 50 178 1998
Fieldbus Standards	IEC 61158-2 1993
	ISA S 50.02 Part 2 1992
<b>Environmental Conditions</b>	
Class	per DIN IEC 721
Ambient temperature	3K3
Storage temperature	253 K ... 333 K (-20 °C ... +60 °C / -4 °F ... 140 °F)
Protection method per DIN 40 050	233 K ... 358 K (-40 °C ... +85 °C / -40 °F ... 185 °F)
High relative humidity	IP 20
Ambient conditions	75 %
	max. grime accumulation level 2 per IEC 664
<b>Mechanical</b>	
Design	Makrolon modular housings, flammability class per UL 94: V - 0
Installation	Can be snapped onto a 35 mm DIN rail per DIN EN 50 022 or wall mounted
Connectivity	Adjustable, removable device terminals with a max. diameter of 2.5 mm <sup>2</sup> (14 AWG)
Weight	about 600 g
<b>Accessories</b>	
Power Rail, PR 05	Insert for standard rail per DIN EN 50 022, normal length is 500 mm
Power feed module, KFD2-EB2.B	supplies Power Rail with a voltage of DC 24 V and a max. current of 4 A
Fieldbus Terminator, KMD0-FT-Ex	closes the PROFIBUS-PA branch in the field. The KMD0-FT-Ex is connected to the last PROFIBUS-PA I/O.
Bridge station, KLD2-GT(2)-DP(R).xPA	Bridge for PROFIBUS-DP (up to 12 Mbit/s)
<b>I/O Number, I/O Current Consumption:</b>	The max. combined current consumption of the connected I/Os must be lower than the nominal current $I_s$ of the segment coupler. The modulation current used by an I/O to send data, does not need to be observed.
<b>Models:</b>	
KLD2-PL-1.PA	Power Link Module
KLD2-PL2-1.PA	Power Link Module for installation within Zone 2

