



# Fieldbus Power Supply

## FieldConnex® Fieldbus

### KLD2-FBPS-1.12.220

- Output: 12 ... 13 V/220 mA
- For battery or solar-powered applications
- For demanding environmental conditions
- Installation in Zone 2/Class I, Div. 2
- For FOUNDATION Fieldbus H1
- Fixed, high-availability terminator
- Low heat dissipation

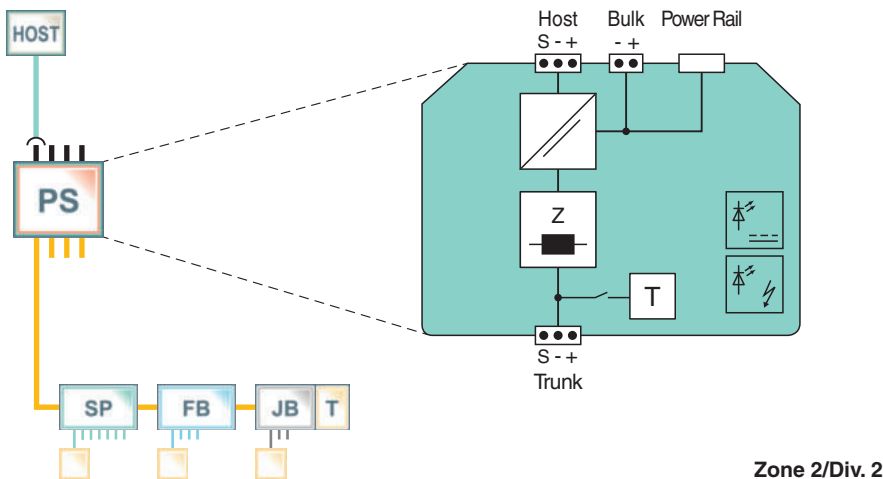
Fieldbus power supply with low voltage for compact plants also in island mode



## Function

This fieldbus power supply is an all-in-one module for single fieldbus segments. It adapts current and voltage and provides the impedance filter required. Reliability of communication is enhanced through galvanic isolation between segment and bulk power supply. This supply is specifically designed for very demanding environmental conditions. Low input ratings and very low heat dissipation are suitable for battery or solar-powered application. Availability and a long service life are achieved through a passive impedance filter and a design optimized for low heat dissipation. Modules can be mounted with no spacing required in any direction for an optimized and space-saving cabinet layout. The mobile Advanced Diagnostic Module connects directly to test plug sockets located on the plug-in terminal. In conjunction with the modular Segment Protector it is a perfectly expandable solution.

## Connection



## Technical Data

### General specifications

Installation in hazardous area Zone 2 / Div. 2

### Supply

Connection	Power Rail or terminals 8+, 11+; 9-, 12-	
Rated voltage	$U_r$	10 ... 30 V DC
Rated current	$I_r$	350 ... 120 mA
Power dissipation		typ. $\leq 0.5$ W

### Fieldbus connection

Number of segments	1
Connection	terminals 3+, 6+; 2-, 5-; 1S, 4S (S=screen connection)

Refer to "General Notes Relating to Pepperl+Fuchs Product Information".

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## Technical Data

Rated voltage	U <sub>N</sub>	12 ... 13 V
Rated current	I <sub>N</sub>	220 mA
<b>Galvanic isolation</b>		
Fieldbus segment/Supply		functional insulation acc. to IEC 62103, rated insulation voltage 250 V AC
<b>Directive conformity</b>		
Electromagnetic compatibility		
Directive 2014/30/EU		EN 61326-1:2013
<b>Standard conformity</b>		
Electromagnetic compatibility		NE 21:2006
Degree of protection		IEC/EN 60529
Fieldbus standard		IEC 61158-2, ISA S 50.02 part 2
Shock resistance		EN 60068-2-27
Vibration resistance		EN 60068-2-6
<b>Ambient conditions</b>		
Ambient temperature		-40 ... 70 °C (-40 ... 158 °F)
Storage temperature		-40 ... 85 °C (-40 ... 185 °F)
Relative humidity		< 95 % non-condensing
Shock resistance		15 g 11 ms
Vibration resistance		1 g , 10 ... 150 Hz
Pollution degree		max. 2, according to IEC 60664
Corrosion resistance		acc. to ISA-S71.04-1985, severity level G3
<b>Mechanical specifications</b>		
Connection type		screw terminal , pluggable
Core cross section		up to 2.5 mm <sup>2</sup>
Housing		20 mm x 115 mm x 107 mm
Housing material		Polycarbonate
Degree of protection		IP20
Mass		approx. 210 g
Mounting		DIN rail mounting
<b>Data for application in connection with hazardous areas</b>		
Certificate		TÜV 06 ATEX 553079 X
Marking		Ⓔ II 3G Ex ec IIC T4 Gc
Directive conformity		
Directive 2014/34/EU		EN 60079-0:2012 , EN 60079-7:2015
<b>International approvals</b>		
FM approval		
FM certificate		FM 19 US 0015 X and FM 19 CA 0011 X
FM marking		AEx/Ex ec IIC T4
<b>Certificates and approvals</b>		
Marine approval		DNV A-14038
<b>General information</b>		
Supplementary information		Observe the certificates, declarations of conformity, instruction manuals, and manuals where applicable. For information see <a href="http://www.pepperl-fuchs.com">www.pepperl-fuchs.com</a> .

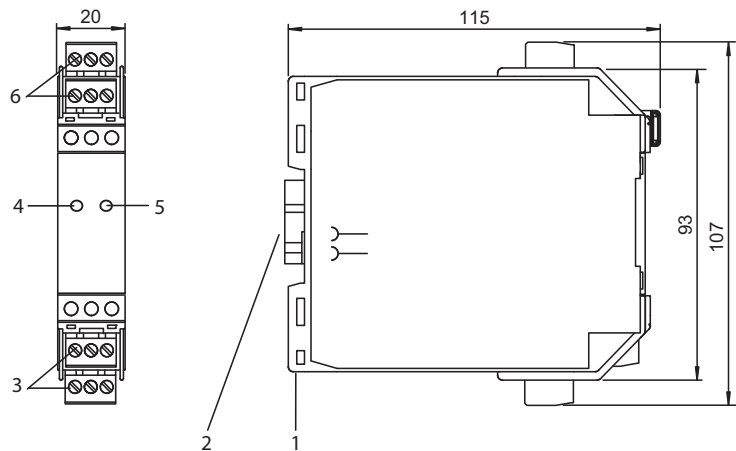
Assembly



Release date: 2024-12-17 Date of issue: 2024-12-17 Filename: 228276\_eng.pdf

Additional Information

Dimensions and Assembly



- Description:
- 1 Extendable lugs
  - 2 Protective cap, remove for power supply via Power Rail
  - 3 Removeable terminals
  - 4 LED red: Fault signal
  - 5 LED green: Power supply
  - 6 Test plug socket; removeable terminals

Operation

Indication

LED indicators:	Conditions
green ON red OFF	Device ready for operation
green OFF red OFF	Device not ready for operation
green OFF red 2 Hz flashing	OVERLOAD, load current > 250 mA typ.