

Fieldbus Power Conditioner

KLD2-PC-1.1.IEC



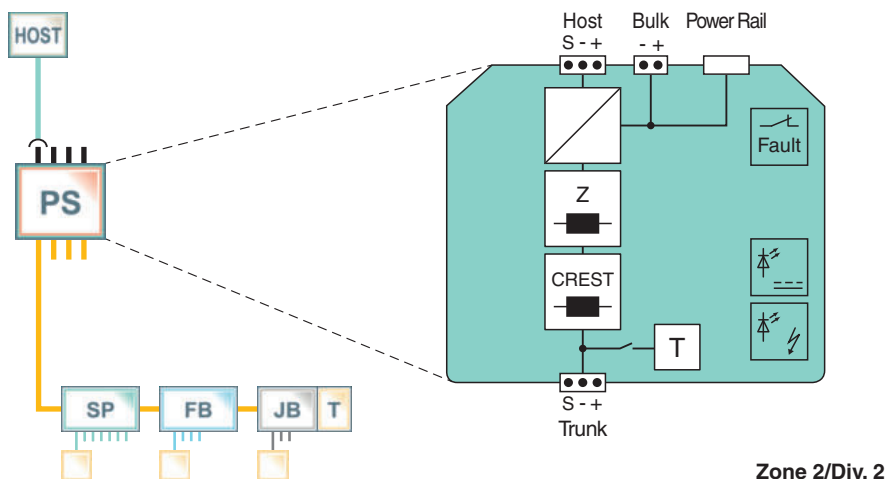
- Output: 14.7 ... 30.7 V/1 A
- For very high segment load
- High-power trunk for high device count and long cable lengths
- Installation only in safe areas
- For FOUNDATION Fieldbus H1
- Selectable, high-availability terminator
- Low heat dissipation
- Supply via Power Rail



Function

The fieldbus power conditioner is an all-in-one module for single fieldbus segments. It provides short-circuit limitation (1 A) and impedance matching only. The output voltage depends on the bulk power voltage. The device feeds high power to the trunk for maximum cable lengths and high device count in any hazardous area. Fieldbus couplers provide explosion protection for live work at the spur. Availability and a long service life are achieved through: only one passive impedance filter per segment with CREST for superior signal transmission, optimized design for low power dissipation and high-availability fieldbus termination. Any mounting direction allows optimized and space-saving cabinet layout.

Connection



Technical Data

Supply

Connection		Power Rail or terminals 8+, 11+; 9-, 12-
Rated voltage	U_r	16 ... 32 V DC
Rated current	I_r	1.02 A
Power dissipation		16 ... 32 V at 1 A: ≤ 1.86 W; typ. 1.6 W

Fieldbus interface

Field-side		
Connection		terminals 3+, 6+; 2-, 5-; 1S, 4S (S=screen connection)
Rated voltage		14.7 ... 30.7 V DC
Rated current		1 A

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

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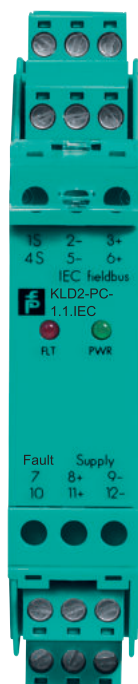
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Technical Data

Terminating impedance		100 Ω switchable off and on via rotary switch: 1 -> on; 0 -> off
Error message output		
Connection		Power Rail or terminals 7, 10
Rated voltage	U_N	32 V DC
Rated current	I_N	10 mA
Voltage drop		1.2 V at 10 mA
Directive conformity		
Electromagnetic compatibility		
Directive 2004/108/EC		EN 61326-1:2006
Standard conformity		
Electromagnetic compatibility		NE 21:2006
Degree of protection		IEC/EN 60529
Fieldbus standard		IEC 61158-2, ISA S 50.02 part 2
Climatic conditions		DIN IEC 721
Ambient conditions		
Ambient temperature		-20 ... 60 °C (-4 ... 140 °F)
Storage temperature		-40 ... 85 °C (-40 ... 185 °F)
Relative humidity		< 95 % non-condensing
Pollution degree		max. 2, according to IEC 60664
Mechanical specifications		
Connection type		Terminals
Core cross-section		up to 2.5 mm ²
Housing		20 mm x 115 mm x 107 mm
Degree of protection		IP20
Mass		approx. 100 g
Mounting		DIN rail mounting
International approvals		
UL approval		UL E106378, CUL E106378
Approved for		Class I, Division 2, Groups A, B, C, D

Product Photo



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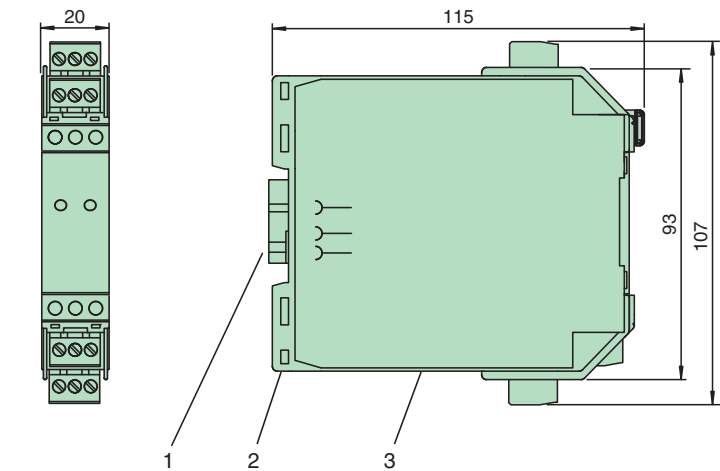
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Accessories

	PR-03	Power Rail with grid, 3 leads
	UPR-03	Universal Power Rail with end caps and cover, 3 conductors, length: 2 m
	KFD2-EB2	Power Feed Module
	KFD2-EB2.R4A.B	Power feed module, redundant supply

Additional Information

Dimensions



- Description:
- 1 Protective cap, remove for power supply via Power Rail
 - 2 Extendable lugs
 - 3 Bus termination, switchable

Indication

LED indicator	Fault signal output	Conditions
green ON red OFF	OFF	supply voltage > 14.4 V DC typ.
green OFF red OFF	ON	supply voltage < 13.2 V DC typ.
red 2 Hz flashing	ON	OVERLOAD, load current > 1.15 A typ.

Installation

see manual

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