

Features

- Output: 25 ... 27 V/360 mA
- For most fieldbus applications
- High-power trunk for high device count and long cable runs
- Installation in Zone 2/Class I, Div. 2
- For FOUNDATION Fieldbus H1
- Fixed, high-availability terminator
- No spacing required between modules

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.

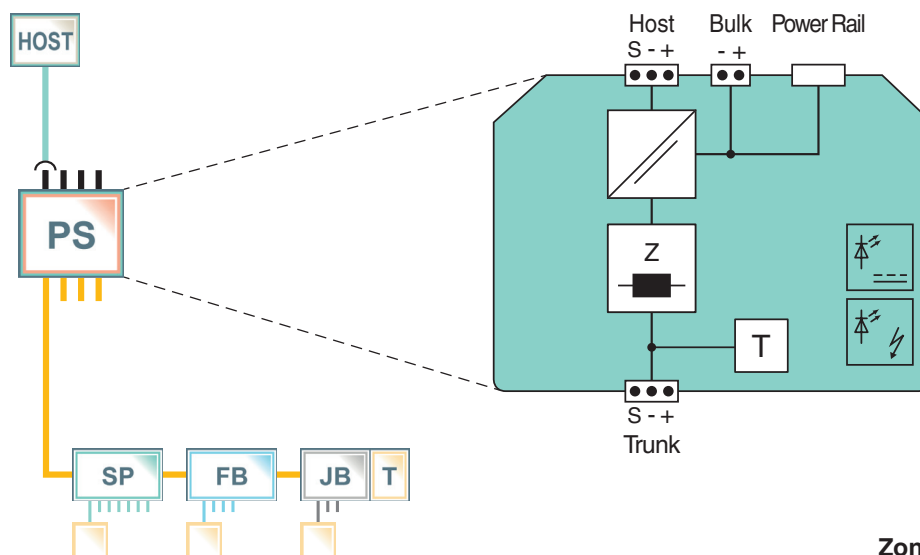
Power output is designed for long cable lengths and device counts suiting the needs of most fieldbus applications. Fieldbus couplers provide explosion protection for live work at the spur where needed.

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.

Assembly



Connection



Zone 2/Div. 2

Release date 2015-04-27 15:17 Date of issue 2015-04-27 189514_eng.xml


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

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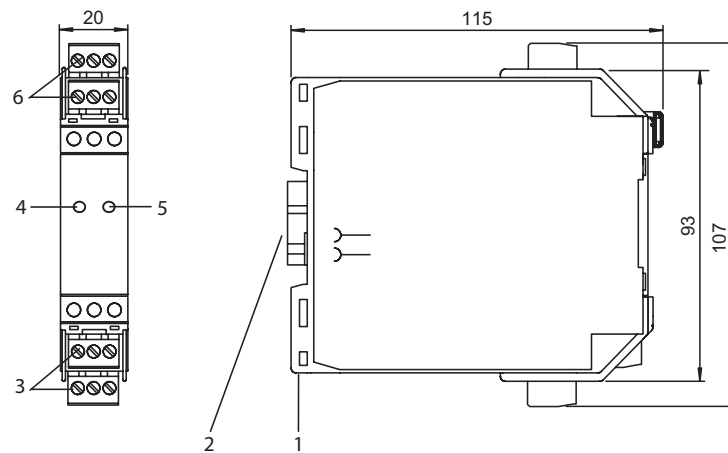
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General specifications		
Design / Mounting		Cabinet installation
Supply		
Connection		Power Rail or terminals 8+, 11+; 9-, 12-
Rated voltage	U_n	19.2 ... 35 V DC
Rated current	I_n	630 ... 340 mA
Power loss		typ. 2,0 W
Fieldbus interface		
Connection		terminals 3+, 6+; 2-, 5-; 1S, 4S (S=screen connection)
Rated voltage	U_N	25 ... 27 V
Rated current	I_N	360 mA
Terminating impedance		100 Ω
Electrical isolation		
Fieldbus segment/Supply		functional insulation acc. to IEC 62103, rated insulation voltage 250 V AC
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
Shock resistance		EN 60068-2-27
Vibration resistance		EN 60068-2-6
Ambient conditions		
Ambient temperature		-40 ... 60 °C (-40 ... 140 °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
Mechanical specifications		
Connection type		Terminals
Core cross-section		up to 2.5 mm ²
Housing		20 mm x 115 mm x 107 mm
Housing material		Polycarbonate
Degree of protection		IP20
Mass		approx. 210 g
Mounting		DIN rail mounting
Data for application in connection with Ex-areas		
Statement of conformity		TÜV 06 ATEX 553079 X
Group, category, type of protection, temperature class		 II 3G EEx nA II T4
Directive conformity		
Directive 94/9/EC		EN 60079-15:2003
International approvals		
FM approval		CoC 3024816, CoC 3024816C
Approved for		Class I, Division 2, Groups A, B, C, D, T4 / Class I, Zone 2, AEx/Ex nA IIC T4
Certificates and approvals		
Marine approval		DNV A-14038
General information		
Supplementary information		Statement of Conformity, Declaration of Conformity, Attestation of Conformity and instructions have to be observed where applicable. For information see www.pepperl-fuchs.com .

Release date 2015-04-27 15:17 Date of issue 2015-04-27 189514_eng.xml

Notes

Dimensions



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

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 > 400 mA typ.

Accessories

- Power Rail PR-03
- Power Rail UPR-03
- Power Rail power feed module KFD2-EB2
- Power Rail power feed module KFD2-EB.R2A.B

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