Features

- 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

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.

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Assembly

Bulk Power Rail Host HOST S-+ • ... PS Ζ Т ... S - + Trunk SP FB JB Т Zone 2/Div. 2 Refer to "General Notes Relating to Pepperl+Fuchs Product Information" Pepperl+Fuchs Group USA: +1 330 486 0002 Germany: +49 621 776 2222 Singapore: +65 6779 9091

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Connection

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-	
General specifications	
Design / Mounting	Cabinet installation
Supply	
Connection	Power Rail or terminals 8+, 11+; 9-, 12-
Rated voltage U	10 30 V DC
Rated current I _r	350 120 mA
Power dissipation	typ. ≤ 0.5 W
Fieldbus interface	
Connection	terminals 3+, 6+; 2-, 5-; 1S, 4S (S=screen connection)
Rated voltage U	12 13 V
Rated current I _N	220 mA
Terminating impedance	100 Ω
Galvanic isolation	
Fieldbus segment/Supply	functional insulation acc. to IEC 62103, rated insulation voltage 250 V AC
Directive conformity	
Electromagnetic compatibility	
Directive 2014/30/EU	EN 61326-1:2013
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 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
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 hazardous areas	
Certificate	TÜV 06 ATEX 553079 X
Marking	$\langle \bar{\epsilon} x \rangle$ II 3G Ex ec IIC T4 Gc
Directive conformity	
Directive 2014/34/EU	EN 60079-0:2012 , EN 60079-7:2015
International approvals	
FM approval	
FM certificate	FM 19 US 0015 X and FM 19 CA 0011 X
FM marking	AEx/Ex ec IIC T4
Certificates and approvals	
Marine approval	DNV A-14038
General information	
Supplementary information	Observe the certificates, declarations of conformity, instruction manuals, and manuals where applicable. For
- appointentary information	information see www.pepperl-fuchs.com.

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

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General General

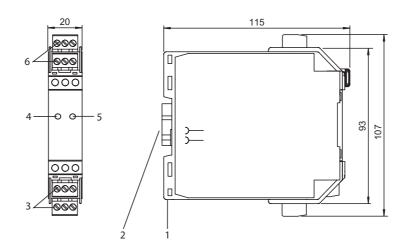
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EPEPPERL+FUCHS 2

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 indi	cators:	Conditions
green red	ON OFF	Device ready for operation
green red	OFF OFF	Device not ready for operation
green red	OFF 2 Hz flashing	OVERLOAD, load current > 250 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