

**Features**

- Output: 14.7 ... 30.7 V/1 A
- For very high segment load
- High-Power Trunk for high device count and long cable runs
- 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.

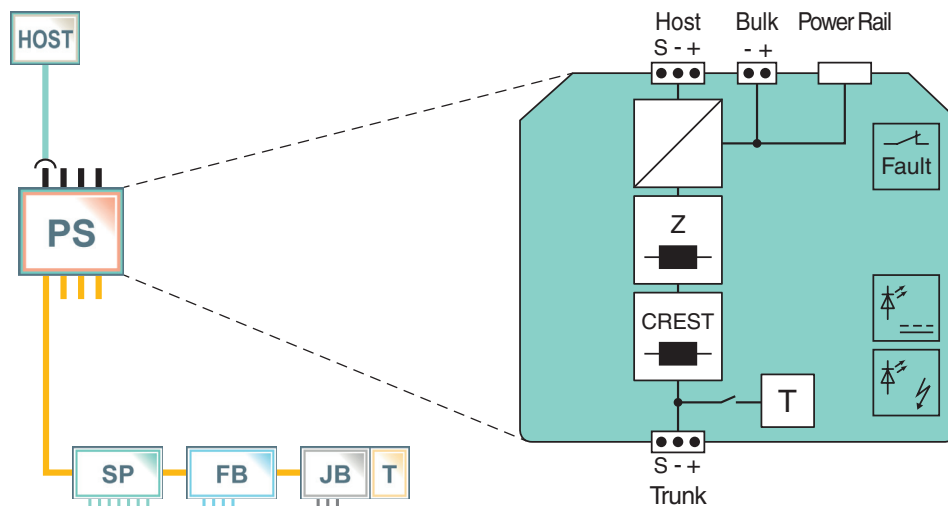
The device feeds high power to the trunk for maximum cable lengths and high device count in any hazardous area. Fieldbus couplers provide explosion protection for live work at the spur.

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.

**Assembly**



**Connection**



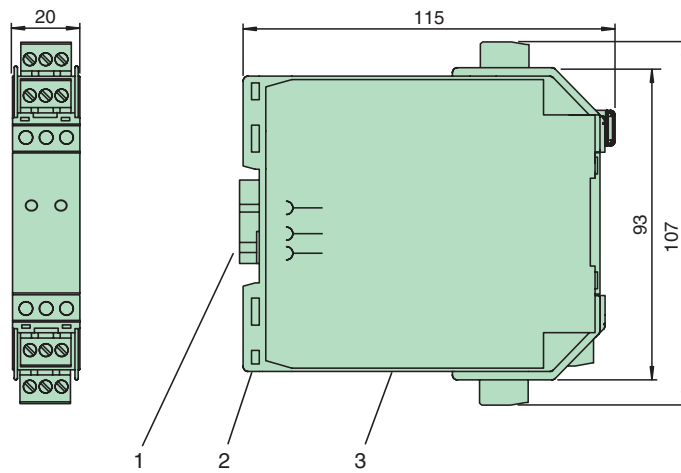
Zone 2/Div. 2

Release date 2013-02-15 11:16 Date of issue 2013-02-15 802561\_eng.xml

<b>Supply</b>	
Connection	Power Rail or terminals 8+, 11+; 9-, 12-
Rated voltage	16 ... 32 V DC
Rated current	1.02 A
Power loss	16 ... 32 V at 1 A: $\leq 1.86$ W; typ. 1.6 W
<b>Fieldbus interface</b>	
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
Terminating impedance	100 $\Omega$ switchable off and on via rotary switch: 1 -> on; 0 -> off
<b>Error message output</b>	
Connection	Power Rail or terminals 7, 10
Rated voltage	32 V DC
Rated current	10 mA
Voltage drop	1.2 V at 10 mA
<b>Directive conformity</b>	
Electromagnetic compatibility	
Directive 2004/108/EC	EN 61326-1:2006
<b>Standard conformity</b>	
Electromagnetic compatibility	
Protection degree	NE 21:2006
Fieldbus standard	IEC 61158-2, ISA S 50.02 part 2
Climatic conditions	DIN IEC 721
<b>Ambient conditions</b>	
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
<b>Mechanical specifications</b>	
Connection type	
Core cross-section	Terminals up to 2.5 mm <sup>2</sup>
Housing	20 mm x 115 mm x 107 mm
Protection degree	IP20
Mass	approx. 100 g
Mounting	DIN rail mounting
<b>International approvals</b>	
UL approval	
Approved for	UL E106378, CUL E106378 Class I, Division 2, Groups A, B, C, D

**Note**

**Dimensions**



Description:

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

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 note**

see manual