Features

- Output: 24 ... 26 V/400 mA
- Couples PROFIBUS PA devices transparently to PROFIBUS DP
- High-power trunk for high device count and long cable lengths
- Installation in Zone 2/Class I, Div. 2
- Up to 1.5 MBit auto-adapting
- PROFIBUS DP terminator selectable
- · Power Rail support

Function

The FieldConnex[®] basic Segment Coupler is an all-in-one gateway and fieldbus power supply for connecting PROFIBUS PA to PROFIBUS DP transparently. The power output suits long cable lengths and high device counts. Device couplers provide explosion protection for live work at the spur where needed.

Communication is transparent between DP and PA. The gateway of the Segment Coupler makes each PA device appear as if it was connected to DP: This relates to addressing, cyclic/acyclic data exchange, and the transfer rate. Segment design is clear and easy to understand without subnetworks. The gateway itself is configuration-free. All in all, these features significantly reduce engineering work.

Availability and a long service life are achieved through a passive impedance filter and a design optimized for low heat dissipation. The fieldbus diagnostic handheld (FDH–1) connects directly to test plug sockets located on the plug-in terminal.





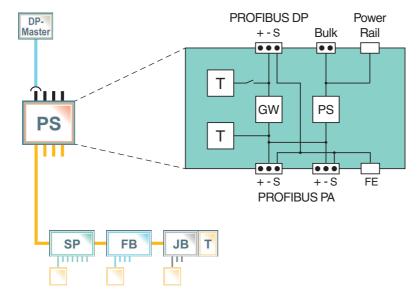








Connection

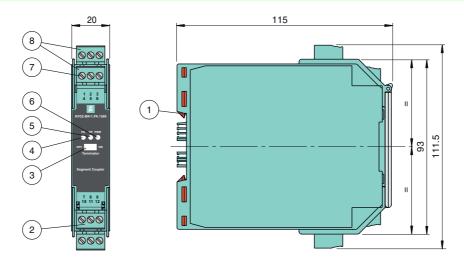


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General enseitientions	
General specifications	Cabinatinatallation
Design / Mounting	Cabinet installation
Supply	D D 11 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
Connection	Power Rail or terminals 11 (L+), 12 (L-)
	U _n 20 30 V DC
Ripple	≤10 %
	I _n 640 mA 365 mA
Power dissipation	max 2.5 W
Fieldbus interface	
PROFIBUS PA	
Connection	3+, 6+, 2-, 5-, 1 shield, 4 shield
Rated voltage	24 26 V
Rated current	≤ 400 mA
Terminating impedance	100 Ω , integrated
PROFIBUS DP	PROFIBUS with RS-485 transmission technology
Connection	terminals 7 RxD/TxD-P, 8 RxD/TxD-N, 9 shield, 10 FE
Baud rate	1.5 MBit/s max.
Indicators/operating means	
Switch	PROFIBUS DP terminator
LED PWR	green: Power on
LED DP/ERR	red 2 Hz flashing: DP error red on: Hardware error red off: DP communication detected
LED PA	red 2 Hz flashing: No PA communication or overload Off: PA communication OK
Electrical isolation	
PROFIBUS DP/PROFIBUS PA	functional insulation acc. to IEC 62103, rated insulation voltage 50 V AC /70 V DC
PROFIBUS DP/Supply	basic insulation according to IEC/EN 61010, rated insulation voltage 253 V AC /357 V DC
PROFIBUS PA/Supply	basic insulation according to IEC/EN 61010, rated insulation voltage 253 V AC /357 V DC
Directive conformity	basic incatation according to 120/214 01010, rated incatation voltage 200 4 /10 /007 4 B0
Electromagnetic compatibility	
Directive 2014/30/EU	EN 61326-1:2013
Standard conformity	LN 01320-1.2013
· ·	NAMUR NE 21
Electromagnetic compatibility	
Degree of protection	IEC/EN 60529
Fieldbus standard	EN 50170/2
Climatic conditions	DIN IEC 721
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 material	Polycarbonate
Degree of protection	IP20
Mass	180 g
Mounting	DIN rail mounting
Data for application in connect with Ex-areas	•
Statement of conformity	TÜV 16 ATEX 7831 X
Group, category, type of prote temperature class	ction, 😥 II 3G Ex ec IIC T4 Gc
Directive conformity	
Directive 2014/34/EU	EN 60079-0:2012, EN 60079-7:2015
International approvals	
CSA approval	CSA 16.70064204
· · - · · · · · · · · · · · · · · ·	Class I, Division 2, Groups A, B, C, D
Approved for	
Approved for	Class I, Zone 2, Ex nA IIC T4 Gc
IECEx approval	Class I, Zone 2, Ex nA IIC T4 Gc IECEx TUR 16.0006X
	Class I, Zone 2, Ex nA IIC T4 Gc

Statement of Conformity, Declaration of Conformity, Attestation of Conformity and instructions have to be observed where applicable. For information see www.pepperl-fuchs.com.

System Component Overview



Description:

- 1 Extendable lugs
- 2 PROFIBUS DP connection
- 3 Switch: Terminator for PROFIBUS DP
- 4 LED PA: Status of PROFIBUS PA
- 5 LED DP: Status of PROFIBUS DP and hardware
- 6 LED PWR: Status of power supply
- 7 Removable terminal with test plug sockets
- 8 PROFIBUS PA trunk connections

Accessories

Type Code	Description
UPR-03	Universal Power Rail [®]
KFD2-EB2	Power feed module
KFD2-EB2.R4A.B	Redundant power feed module