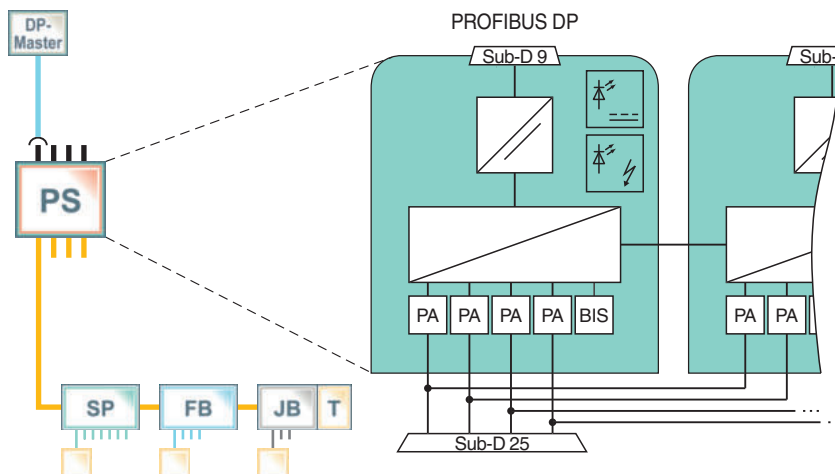


- PROFIBUS DP V1 / For 4 segments PA
- Couples PROFIBUS PA devices transparently to PROFIBUS DP
- Optional redundant configuration
- Installation in Zone 2/Class I, Div. 2
- Up to 12 Mbit/s, auto adapting
- For redundant and non-redundant masters
- Supports Flying Redundancy (FR)
- Cyclic/acyclic data exchange

CE Ex FieldConnex PROFIBUS

Connection



General specifications		
Design / Mounting		Motherboard based
Installation in hazardous area		Zone 2 / Div. 2
Supply		
Rated voltage	U _r	19.2 ... 35 V DC
Rated current	I _r	160 ... 90 mA
Power dissipation		3 W
Fieldbus connection		

Technical Data

Number of segments	4
PROFIBUS DP	
Connection	9-pin Sub-D socket
Protocol	PROFIBUS DP V1
Indicators/operating means	
LED Seg 1...4	red 2 Hz flashing: PA error, red and LED DP/ERR red: MAU error
LED PWR	green: Power on
LED DP/ERR	red 2 Hz flashing: DP error ; red: Hardware error
LED Red.	yellow: redundant operation primary device ; yellow 2 Hz flashing: synchronization or redundancy not available
Galvanic isolation	
CH/PROFIBUS DP	functional insulation acc. to IEC 62103, rated insulation voltage 50 V _{eff}
PROFIBUS DP/Supply	functional insulation acc. to IEC 62103, rated insulation voltage 50 V _{eff}
CH/CH	functional insulation acc. to IEC 62103, rated insulation voltage 50 V _{eff}
All circuits/FE	functional insulation acc. to IEC 62103, rated insulation voltage 50 V _{eff}
Directive conformity	
Electromagnetic compatibility	
Directive 2014/30/EU	EN 61326-1:2013
Low voltage	
Directive 73/23/EEC	EN 50178 (identical to EN 62103)
Standard conformity	
Galvanic isolation	IEC 62103
Electromagnetic compatibility	NE 21:2011
Degree of protection	IEC 60529
Fieldbus standard	IEC 61158-2
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	
Housing material	Polycarbonate
Degree of protection	IP20
Mass	250 g
Dimensions	
Height	106 mm
Width	40 mm
Depth	128 mm
Mounting	motherboard mounting
Data for application in connection with hazardous areas	
Certificate	TÜV 04 ATEX 2500 X
Marking	Ⓔ II 3 G Ex nA IIC T4 Gc
Directive conformity	
Directive 2014/34/EU	EN IEC 60079-0:2018+AC:2020 , EN 60079-11:2012 , EN 60079-15:2010
International approvals	
FM approval	
FM certificate	FM 19 US 0015 X and FM 19 CA 0011 X
FM marking	Class I, Division 2, Groups A, B, C, D, T4 / Class I, Zone 2, AEx/Ex ec IIC T4

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Technical Data

IECEx approval		
IECEx certificate	IECEx TUN 13.0038X	
IECEx marking	Ex nA IIC T4 Gc	
General information		
Supplementary information	Observe the certificates, declarations of conformity, instruction manuals, and manuals where applicable. For information see www.pepperl-fuchs.com .	

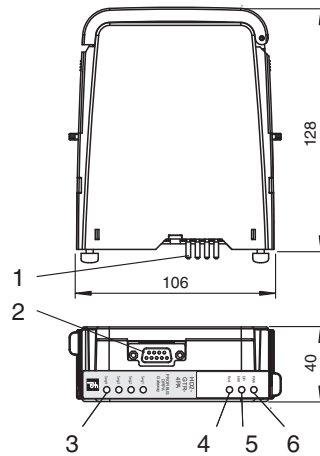
Assembly



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Additional Information

Dimensions and Assembly



Description:

- 1 Plug connections to motherboard
- 2 PROFIBUS DP interface
- 3 LED Seg 1 ... Seg 4:
 - Red flashing with 2 Hz: PA error, double slave address
- 4 LED Redundancy:
 - Yellow constant: Redundancy operation primary device
 - Yellow flashing: Synchronization
- 5 LED DP/Error:
 - Red flashing with 2 Hz: DP error
 - Red constant: Hardware error
- 6 LED Power:
 - Green: Power on