

FB-MUX/HS/DI24/PA - Multiplexer



1005332

<https://www.phoenixcontact.com/us/products/1005332>

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The FB-MUX/HS/DI24/PA head station can be used with up to six 4-channel digital input modules (RAD-DI4-IFS), six 4-channel NAMUR digital input modules (RAD-NAM4-IFS), three 8-channel digital input modules (RAD-DI8-IFS), or any combination of modules for maximum of 24 total channels. This configuration can be used as a high-density digital input solution.

Product description

The fieldbus PA multiplexer headstation allows the integration of standard Radioline I/O modules to a Profibus PA network. The FB-MUX/HS/PA has five profile software versions for different IO configurations.

Your advantages

- Scalable according to application needs
- Five application-specific head stations allow simple implementation in the field
- Easy integration into host system with an EDD-, GSD-, or DTM-data file
- Connection of all I/O field signals with standard PROFIBUS PA cable
- No software needed thanks to a pre-configured head station
- IECEx CoC
- UL listed
- Suitable for ATEX Zone 2

Commercial data

Item number	1005332
Packing unit	5 pc
Minimum order quantity	1 pc
Sales key	DN11
Product key	DNC135
Catalog page	Page 461 (C-6-2019)
GTIN	4055626475783
Weight per piece (including packing)	187.9 g
Weight per piece (excluding packing)	187.9 g
Customs tariff number	85176200
Country of origin	US

Technical data

Notes

Utilization restriction

CCCex note	Use in potentially explosive areas is not permitted in China.
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Product properties

Product type	Interface converter
Data management status	
Article revision	05
Insulation characteristics	
Overvoltage category	II
Degree of pollution	2

Connection data

Connection method	Screw connection
Stripping length	7 mm
Screw thread	M3
Conductor cross section rigid	0.2 mm² ... 2.5 mm²
Conductor cross section flexible	0.2 mm² ... 2.5 mm²
Conductor cross section AWG	24 ... 14
Tightening torque	0.5 Nm ... 0.6 Nm

Interfaces

Data: PROFIBUS PA

Number of connections	1
Connection method	Terminal block

Dimensions

Width	17.5 mm
Height	114.5 mm
Depth	99 mm

Material specifications

Color	green (RAL 6021)
Flammability rating according to UL 94	V0
Housing material	PA 6.6-FR

Environmental and real-life conditions

Ambient conditions

Degree of protection	IP20
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Ambient temperature (operation)	-40 °C ... 70 °C
Ambient temperature (storage/transport)	-40 °C ... 85 °C
Altitude	< 2000 m
Permissible humidity (operation)	20 % ... 95 % (non-condensing)

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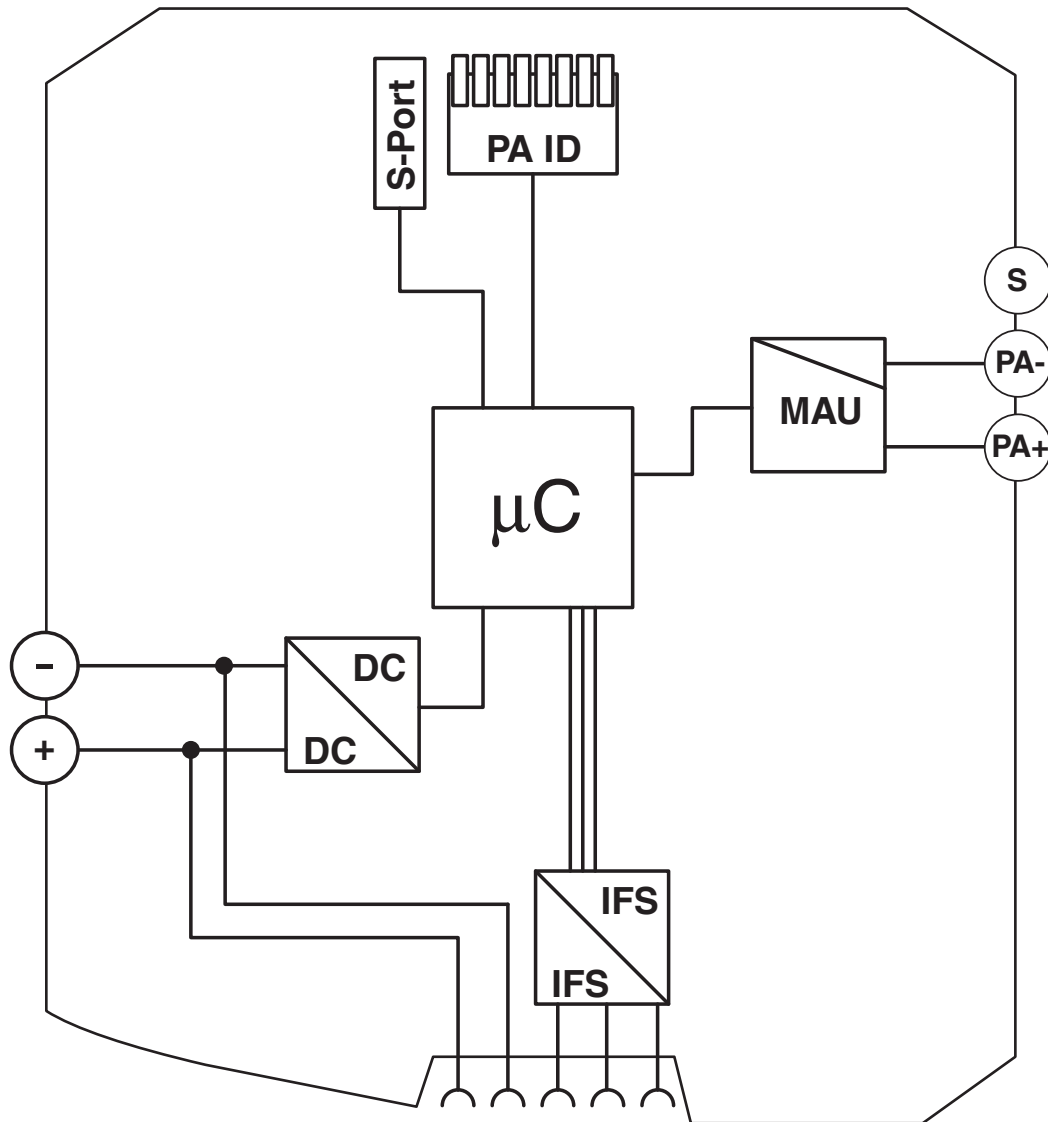
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Drawings

Block diagram



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Approvals

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IECEx

Approval ID: IECEx IBE 17.0029X



ATEX

Approval ID: IBExU17ATEXB011 X

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Classifications

ECLASS

ECLASS-11.0	27242208
ECLASS-12.0	27242208
ECLASS-13.0	27242208

ETIM

ETIM 8.0	EC002608
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UNSPSC

UNSPSC 21.0	43222600
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Environmental product compliance

EU RoHS	
Fulfills EU RoHS substance requirements	Yes
Exemption	7(a), 7(c)-I
China RoHS	
Environment friendly use period (EFUP)	EFUP-50
	An article-related China RoHS declaration table can be found in the download area for the respective article under "Manufacturer declaration". For all articles with EFUP-E, no China RoHS declaration table issued and required.
EU REACH SVHC	
REACH candidate substance (CAS No.)	Lead(CAS: 7439-92-1)
SCIP	c88bbf2c-8c42-4a58-8bbf-929d35a9acc2

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Accessories

RAD-NAM4-IFS - I/O extension module

2316275

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Radioline - I/O extension module, 4 NAMUR digital input module used in Radioline and PROFIBUS PA MUX I/O systems. Fulfills the NAMUR proximity sensor standard EN 60947-5-6, and communication to the head stations for Radioline systems and the FB-MUX/HS...PA via the T-BUS connector installed on the DIN rail. This module has channel-to-channel isolation.

RAD-DI4-IFS - I/O extension module

2901535

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Radioline - I/O extension module, 4 digital inputs (0 ... 250 V AC/DC)

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RAD-DI8-IFS - I/O extension module

2901539

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Radioline - I/O extension module, 8 digital inputs (0 ... 30.5 V DC) or 2 pulse inputs up to 100 Hz

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