Connection

CE

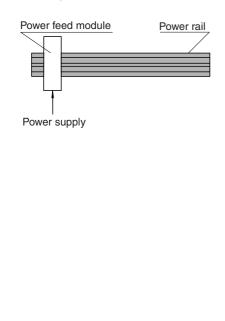
- 24 V DC supply voltage
- Device installation permissible in zone 2
- Supply current ≤ 4 A
- · Fault signal output with adjustable mode of operation
- Bus access via terminals
- · EMC acc. to NAMUR NE 21

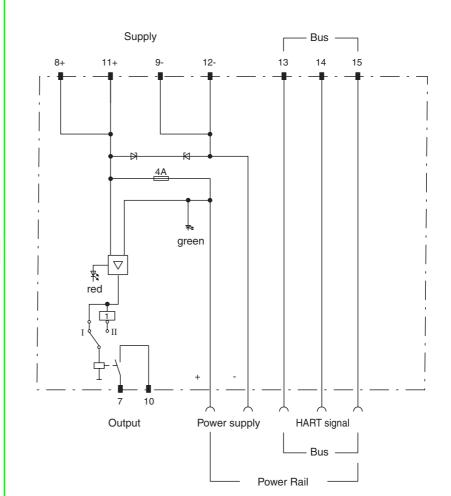
Function

The power feed module KFD2-EB.RPI supplies the Power Rail with a voltage of 24 V DC and a 4 A maximum current. The application of the supply voltage is indicated on the front panel by means of a green LED (POWER ON).

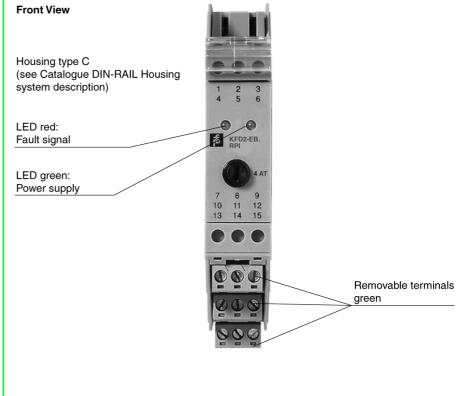
In a fault condition, the relays switch open and the fault is indicated by means of a red LED on the front panel. The mode of operation can be adjusted with a plug-in jumper.

The dual designed power feed terminals have the ability to loop the supply (up to a max. of 10 A). On the KFD2-EB2.RPI, the 3 poles of the Power Rail for the bus connection are separately arranged on terminals 13, 14 and 15. The breakdown diode connected between terminals 8+, 11+ and 9-, 12- provides transient overvoltage protection per IEC 801-5.





Composition



Subject to reasonable modifications due to technical advances Pepperl+Fuchs Group • Tel.: Germany +49 621 776-0 • USA +1 330 4253555 • Singapore +65 67799091 • Internet http://www.pepperl-fuchs.com

Copyright Pepperl+Fuchs, Printed in Germany

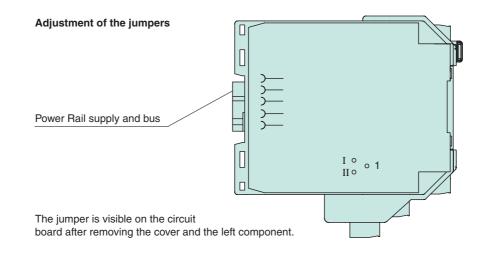
1

Connection terminals 81+, 12- terminals 8+, 9- Fated voltage 2030 V DC The maximum rated operational voltage of the devices plugged onto the Power Rail must not be exceeded. Output 0 Power Rail feed output current: < 4 A Fault signal relay output: NO Contact loading 24 V AC, 1 A/24 V DC, 1 A Energized/delay approx. 20 ms / approx. 20 ms Directive onformity E Explosion protection E Directive 949 EC EN 50021 Standard conformity E Protection degree EN 50021 Directive 949 EC EC 60529 Ambient temperature as c	Supply	
Process The maximum rated operational voltage of the devices plugged onto the Power Rail must not be exceeded. Output Power Rail feed output current: ≤ 4 A Power Rail feed relay output: NO Contact loading 24 V AC, 1 A/24 V DC, 1 A Benergized/de-energized delay approx. 20 ms / approx. 20 ms Directive conformity Explosion protection Directive onformity Explosion protection Electromagnetic compatibility NE 21 Protection degree IEC 60529 Ambient conditions acc. to 1SA-S71.04-1985, severity level G3 Mechanical specifications Protection degree IP20 Connection IP20 Connection degree IP20 Dimensions 20 x 118 x 115 mm (0.8 x 4.6 x 4.5 in) Must DIN rail mounting Data for application in conjunction setting the data descenses Statement of conformity Statement of contromity TÜV 00 ATEX 1618 X, observe statement of conformity Group, cataging, type of protection, temperature classification in division 2 yes Statement of contromity Statement of contromity Statement of contoromity <t< td=""><td>Connection</td><td></td></t<>	Connection	
Power Rail feed output current: < 4 A Fault signal relay output: NO Contact loading 24 V AC, 1 A/24 V DC, 1 A Energized/de-energized delay approx. 20 ms / approx. 20 ms Directive conformity Explosion protection Directive 949 EC EN 50021 Standard conformity Explosion protection Electromagnetic compatibility NE 21 Protection degree IEC 60529 Ambient conditions - Ambient temperature -20 60 °C (253 333 K) Damaging gas acc. to ISA-S71.04-1985, severity level G3 Mechanical specifications - Protection degree IP20 Connection terminal connection ≤ 2.5 mm ² Mass approx. 100 g Direations 20 x 118 x 115 mm (0.8 x 4.6 x 4.5 in) Mounting DIN category, type of protection, temperature classification Statement of conformity TW 00 ATEX 1618 X, observe statement of conformity Group, category, type of protection, tengery, type of protection, teagory, type of protection, tengery, type of protection, t	Rated voltage	
Fault signal relay output: NO Contact loading 24 V AC, 1 A/24 V DC, 1 A Energized/de-energized delay approx. 20 ms / approx. 20 ms Directive conformity Explosion protection Directive 94/9 EC EN 50021 Standard conformity Electromagnetic compatibility Protection degree IEC 60529 Ambient conditions - Ambient temperature -2060 °C (253333 K) Daraging gas ac. to ISA-S71.04-1985, severity level G3 Mechanical specifications IP20 Connection degree IP20 Dimensions 20 x 118 x 115 mm (0.8 x 4.6 x 4.5 in) Mounting DIN rail mounting Dirad for application in conjunction frequency classifications FÜV 00 ATEX 1618 X, observe statement of conformity Group, category, type of protection, temperature classification VI 00 ATEX 1618 X, observe statement of conformity FM control drawing No. 116-0160 Suitable for installation in division 2 yes	Output	
Contact loading 24 V AC, 1 A/24 V DC, 1 A Energized/de-energized delay approx. 20 ms / approx. 20 ms Directive conformity Explosion protection Directive 94/9 EC EN 50021 Standard conformity E Electromagnetic compatibility NE 21 Protection degree IEC 60529 Ambient conditions - Ambient conditions - Protection degree -20 60 °C (253 333 K) Damaging gas acc. to ISA-S71.04-1985, severity level G3 Mechanical specifications IP20 Connection terminal connection ≤ 2.5 mm ² Mass approx. 100 g Dimensions 20 x 118 x 115 mm (0.8 x 4.6 x 4.5 in) Mounting DIN rail mounting Data for application in conjunction fü y 00 ATEX 1618 X, observe statement of conformity Group, category, type of protecton, temperature classification fü y 00 ATEX 1618 X, observe statement of conformity Group, category, type of protecton, temperature classification No. 116-0160 Suitable for installation in division 2 yes Suitable for installation in division 2 yes	Power Rail feed	output current: ≤ 4 A
Energized/de-energized delay approx. 20 ms / approx. 20 ms Directive conformity Explosion protection Directive 94/9 EC EN 50021 Standard conformity Electromagnetic compatibility Protection degree IEC 60529 Ambient conditions - Ambient temperature -20 60 °C (253 333 K) Damaging ga acc. to ISA-S71.04-1985, severity level G3 Mechanical specifications - Protection degree IP20 Connection terminal connection ≤ 2.5 mm ² Mass approx. 100 g Dimensions 20 x 118 x 115 mm (0.8 x 4.6 x 4.5 in) Mounting DIN rail mounting Dix rail mounting UV 00 ATEX 1618 X, observe statement of conformity Statement of conformity TÜV 00 ATEX 1618 X, observe statement of conformity FM control drawing No. 116-0160 Suitable for installation in division 2 yes	Fault signal	relay output: NO
Directive conformity Image: mathematical section Explosion protection Filter Store Directive 94/9 EC EN 50021 Standard conformity Electromagnetic compatibility Electromagnetic compatibility NE 21 Protection degree IEC 60529 Ambient conditions - Ambient temperature -20 60 °C (253 333 K) Damaging gas acc. to ISA-S71.04-1985, severity level G3 Mechanical specifications - Protection degree IP20 Connection terminal connection ≤ 2.5 mm ² Mass approx. 100 g Dimensions 20 × 118 × 115 mm (0.8 × 4.6 × 4.5 in) Mounting DIN rail mounting Data for application in conjunction with hazardous areas TÜV 00 ATEX 1618 X, observe statement of conformity Statement of conformity TÜV 00 ATEX 1618 X, observe statement of conformity Entity parameter - FM control drawing No. 116-0160 Suitable for installation in division 2 yes	Contact loading	24 V AC, 1 A/24 V DC, 1 A
Explosion protection Image: Protection Protection Directive 94/9 EC EN 50021 Standard conformity Image: Protection degree Electromagnetic compatibility NE 21 Protection degree IEC 60529 Ambient conditions -20 60 °C (253 333 K) Damaging gas acc. to ISA-S71.04-1985, severity level G3 Mechanical specifications -20 60 °C (253 333 K) Protection degree IP20 Connection terminal connection ≤ 2.5 mm² Mass approx. 100 g Dimensions 20 x 118 x 115 mm (0.8 x 4.6 x 4.5 in) Mouting DIN rail mounting Data for application in conjunction with hazardous areas with hazardous areas Statement of conformity TÜV 00 ATEX 1618 X, observe statement of conformity Group, category, type of protection, temperature classification with 3G EEx nAC IIC T4 FM control drawing No. 116-0160 Suitable for installation in division 2 yes	Energized/de-energized delay	approx. 20 ms / approx. 20 ms
Directive 94/9 EC EN 50021 Standard conformity E Electromagnetic compatibility NE 21 Protection degree IEC 60529 Ambient conditions - Ambient temperature -20 60 °C (253 333 K) Damaging gas acc. to ISA-S71.04-1985, severity level G3 Mechanical specifications - Protection degree IP20 Connection terminal connection ≤ 2.5 mm ² Mass approx. 100 g Dimensions 20 x 118 x 115 mm (0.8 x 4.6 x 4.5 in) Mounting DIN rail mounting Data for application in conjunction with hazardous areas TÜV 00 ATEX 1618 X, observe statement of conformity Group, category, type of protection, temperature classification Ex nAC IIC T4 FM control drawing No. 116-0160 Suitable for installation in division 2 yes Safety parameter yes	Directive conformity	
Standard conformity IEC antipatibility Electromagnetic compatibility NE 21 Protection degree IEC 60529 Ambient conditions -20 60 °C (253 333 K) Damaging gas acc. to ISA-S71.04-1985, severity level G3 Mechanical specifications -20 60 °C (253 333 K) Protection degree IP20 Connection terminal connection ≤ 2.5 mm² Mass approx. 100 g Dimensions 20 x 118 x 115 mm (0.8 x 4.6 x 4.5 in) Mounting DIN rail mounting Data for application in conjunction with hazardous areas TÚV 00 ATEX 1618 X, observe statement of conformity Statement of conformity TÚV 00 ATEX 1618 X, observe statement of conformity Froup, category, type of protection, temperature classification No. 116-0160 Suitable for installation in division 2 yes Safety parameter yes	Explosion protection	
Electromagnetic compatibility NE 21 Protection degree IEC 60529 Ambient conditions -20 60 °C (253 333 K) Damaging gas acc. to ISA-S71.04-1985, severity level G3 Mechanical specifications -20 60 °C (253 333 K) Protection degree IP20 Connection terminal connection ≤ 2.5 mm ² Mass approx. 100 g Dimensions 20 x 118 x 115 mm (0.8 x 4.6 x 4.5 in) Mounting DIN rail mounting Data for application in conjunction with hazardous areas TÜV 00 ATEX 1618 X, observe statement of conformity § Il 3 G EEx nAC IIC T4 € Il 3 G EEx nAC IIC T4 FM control drawing No. 116-0160 Suitable for installation in division 2 yes	Directive 94/9 EC	EN 50021
Protection degree IEC 60529 Ambient conditions -20 60 °C (253 333 K) Damaging gas acc. to ISA-S71.04-1985, severity level G3 Mechanical specifications -20 60 °C (253 333 K) Protection degree IP20 Connection terminal connection ≤ 2.5 mm² Mass approx. 100 g Dimensions 20 x 118 x 115 mm (0.8 x 4.6 x 4.5 in) Mounting DIN rail mounting Data for application in conjunction with hazardous areas - Statement of conformity TÜV 00 ATEX 1618 X, observe statement of conformity Group, category, type of protection, temperature classification Ex nC IIC T4 FM control drawing No. 116-0160 Suitable for installation in division 2 yes Safety parameter yes	Standard conformity	
Ambient conditions -2060 °C (253333 K) Ambient temperature -2060 °C (253333 K) Damaging gas acc. to ISA-S71.04-1985, severity level G3 Mechanical specifications Protection degree Protection degree IP20 Connection terminal connection ≤ 2.5 mm² Mass approx. 100 g Dimensions 20 x 118 x 115 mm (0.8 x 4.6 x 4.5 in) Mounting DIN rail mounting Data for application in conjunction with hazardous areas TÜV 00 ATEX 1618 X, observe statement of conformity Group, category, type of protection, temperature classification Yü II 3 G EEx nAC IIC T4 FM control drawing No. 116-0160 Suitable for installation in division 2 yes	Electromagnetic compatibility	NE 21
Ambient temperature -20 60 °C (253 333 K) Damaging gas acc. to ISA-S71.04-1985, severity level G3 Mechanical specifications IP20 Protection degree IP20 Connection terminal connection ≤ 2.5 mm² Mass approx. 100 g Dimensions 20 x 118 x 115 mm (0.8 x 4.6 x 4.5 in) Mounting DIN rail mounting Data for application in conjunction with hazardous areas TÜV 00 ATEX 1618 X, observe statement of conformity Group, category, type of protection, terminal casification TÜV 00 ATEX 1618 X, observe statement of conformity Entity parameter No. 116-0160 Suitable for installation in division 2 yes	Protection degree	IEC 60529
Damaging gas acc. to ISA-S71.04-1985, severity level G3 Mechanical specifications IP20 Protection degree IP20 Connection terminal connection ≤ 2.5 mm² Mass approx. 100 g Dimensions 20 x 118 x 115 mm (0.8 x 4.6 x 4.5 in) Mounting DIN rail mounting Data for application in conjunction with hazardous areas TÜV 00 ATEX 1618 X, observe statement of conformity Group, category, type of protection, temperature classification TÜV 00 ATEX 1618 X, observe statement of conformity FM control drawing No. 116-0160 Suitable for installation in division 2 yes Safety parameter yes	Ambient conditions	
Mechanical specifications IP20 Protection degree IP20 Connection terminal connection ≤ 2.5 mm ² Mass approx. 100 g Dimensions 20 x 118 x 115 mm (0.8 x 4.6 x 4.5 in) Mounting DIN rail mounting Data for application in conjunction with hazardous areas TÜV 00 ATEX 1618 X, observe statement of conformity Statement of conformity TÜV 00 ATEX 1618 X, observe statement of conformity Group, category, type of protection, temperature classification II 3 G EEx nAC IIC T4 FM control drawing No. 116-0160 Suitable for installation in division 2 yes Safety parameter yes	Ambient temperature	-20 60 °C (253 333 K)
Protection degree IP20 Connection terminal connection ≤ 2.5 mm ² Mass approx. 100 g Dimensions 20 x 118 x 115 mm (0.8 x 4.6 x 4.5 in) Mounting DIN rail mounting Data for application in conjunction with hazardous areas TÜV 00 ATEX 1618 X, observe statement of conformity Statement of conformity TÜV 00 ATEX 1618 X, observe statement of conformity Group, category, type of protection, temperature classification II 3 G EEx nAC IIC T4 FM control drawing No. 116-0160 Suitable for installation in division 2 yes Safety parameter yes	Damaging gas	acc. to ISA-S71.04-1985, severity level G3
Connection terminal connection ≤ 2.5 mm² Mass approx. 100 g Dimensions 20 x 118 x 115 mm (0.8 x 4.6 x 4.5 in) Mounting DIN rail mounting Data for application in conjunction with hazardous areas TÜV 00 ATEX 1618 X, observe statement of conformity Statement of conformity TÜV 00 ATEX 1618 X, observe statement of conformity Group, category, type of protection, temperature classification I 3 G EEx nAC IIC T4 FM control drawing No. 116-0160 Suitable for installation in division 2 yes Safety parameter yes	Mechanical specifications	
Massapprox. 100 gDimensions20 x 118 x 115 mm (0.8 x 4.6 x 4.5 in)MountingDIN rail mountingData for application in conjunction with hazardous areasTÜV 00 ATEX 1618 X, observe statement of conformityStatement of conformityTÜV 00 ATEX 1618 X, observe statement of conformityGroup, category, type of protection, temperature classificationWill 3 G EEx nAC IIC T4FM control drawingNo. 116-0160Suitable for installation in division 2 Safety parameteryes	Protection degree	
Dimensions20 x 118 x 115 mm (0.8 x 4.6 x 4.5 in)MountingDIN rail mountingData for application in conjunction with hazardous areasTÜV 00 ATEX 1618 X, observe statement of conformityStatement of conformityTÜV 00 ATEX 1618 X, observe statement of conformityGroup, category, type of protection, temperature classificationTÜV 00 ATEX 1618 X, observe statement of conformityEntity parameterNo. 113 G EEx nAC IIC T4FM control drawingNo. 116-0160Suitable for installation in division 2 Safety parameteryes	Connection	terminal connection \leq 2.5 mm ²
MountingDIN rail mountingData for application in conjunction with hazardous areasDIN rail mountingStatement of conformityTÜV 00 ATEX 1618 X, observe statement of conformityGroup, category, type of protection, temperature classificationTÜV 00 ATEX 1618 X, observe statement of conformityEntity parameterII 3 G EEx nAC IIC T4FM control drawingNo. 116-0160Suitable for installation in division 2yesSafety parameterI	Mass	approx. 100 g
Data for application in conjunction with hazardous areas TÜV 00 ATEX 1618 X, observe statement of conformity Statement of conformity TÜV 00 ATEX 1618 X, observe statement of conformity Group, category, type of protection, temperature classification TÜV 00 ATEX 1618 X, observe statement of conformity Entity parameter II 3 G EEx nAC IIC T4 FM control drawing No. 116-0160 Suitable for installation in division 2 yes Safety parameter Image: Safety parameter	Dimensions	20 x 118 x 115 mm (0.8 x 4.6 x 4.5 in)
with hazardous areas TÜV 00 ATEX 1618 X, observe statement of conformity Statement of conformity TÜV 00 ATEX 1618 X, observe statement of conformity Group, category, type of protection, temperature classification II 3 G EEx nAC IIC T4 Entity parameter No. 116-0160 Suitable for installation in division 2 yes Safety parameter Image: Safety parameter	Mounting	DIN rail mounting
Group, category, type of protection, temperature classification II 3 G EEx nAC IIC T4 Entity parameter FM control drawing Suitable for installation in division 2 yes Safety parameter Ves		
temperature classificationEntity parameterFM control drawingNo. 116-0160Suitable for installation in division 2yesSafety parameter	Statement of conformity	TÜV 00 ATEX 1618 X , observe statement of conformity
FM control drawing No. 116-0160 Suitable for installation in division 2 yes Safety parameter Vector		🐼 II 3 G EEx nAC IIC T4
Suitable for installation in division 2 yes Safety parameter	Entity parameter	
Safety parameter	FM control drawing	No. 116-0160
	Suitable for installation in division 2	yes
Control drawing No. 116-0160	Safety parameter	
	Control drawing	No. 116-0160

Supplementary information

EC-Type Examination Certificate, Statement of Conformity, Declaration of Conformity and instructions have to be observed. For information see www.pepperl-fuchs.com.

Notes



Copyright Pepperl+Fuchs, Printed in Germany