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Россия +7(495)268-04-70

Казахстан +7(727) 345-47-04

Беларусь +(375) 257-127-884

Узбекистан +998(71)205-18-59

Киргизия +996(312)96-26-47

эл.почта: phb@nt-rt.ru || сайт: <https://pepperl-fuchs.nt-rt.ru/>



Power Feed Module KFD2-EB2

- Interface for Power Rail
- Supply current ≤ 4 A
- Replaceable fuse
- Relay contact output, reversible
- LED status indication

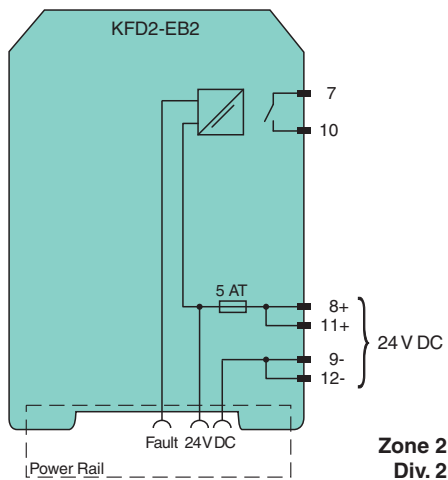
Power Feed Module



Function

The power feed module supplies the Power Rail with a voltage of 24 V DC and a maximum current of 4 A. In the event of a device fault or a wiring fault of any isolator on the Power Rail, the collective error messaging relay alerts the controller via a binary I/O point. This relay can be configured as normally-open or normally-closed. A green LED on the front of the device indicates the power state, and a red LED lights up during a fault condition. In the sense of functional safety (SIL) the device provides no dangerous failures. Thereby the safe condition of the supplied isolators must be defined as the de-energized state. Thus the device will not influence the safety calculation or the SIL value. This device is compatible with all versions of the Power Rail.

Connection



Technical Data

Supply

Connection		terminals 11+, 12- terminals 8+, 9-
Rated voltage	U_r	20 ... 30 V DC The maximum rated operating voltage of the devices plugged onto the Power Rail must not be exceeded.
Fusing		5 AT/250 V AC recommended maximum utilization of the fuse: 80 %
Power dissipation		≤ 1 W

Output

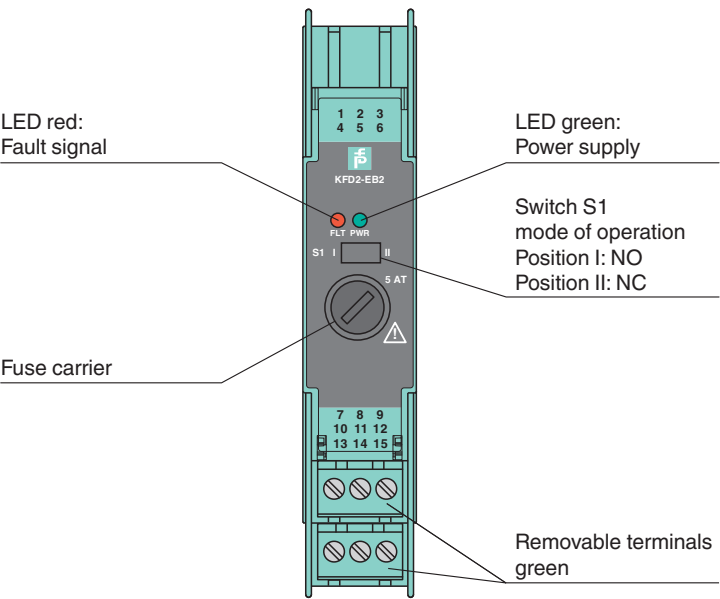
Connection		Power Rail
Output current		max. 4 A

Technical Data

Output voltage		$U_i \geq \text{rated voltage } U_r = U_i - 0.6 \text{ V}$
Fault signal		relay output: NO contact
Contact loading		30 V AC/ 2 A / $\cos \phi \geq 0.7$; 40 V DC/ 2 A
Energized/De-energized delay		approx. 20 ms / approx. 20 ms
Indicators/settings		
Display elements		LEDs
Control elements		DIP switch
Configuration		via DIP switches
Labeling		space for labeling at the front
Directive conformity		
Electromagnetic compatibility		
Directive 2014/30/EU		EN 61326-1:2013 (industrial locations)
Conformity		
Electromagnetic compatibility		NE 21:2017
Degree of protection		IEC 60529:2001
Ambient conditions		
Ambient temperature		-40 ... 70 °C (-40 ... 158 °F)
Mechanical specifications		
Degree of protection		IP20
Connection		screw terminals
Mass		approx. 100 g
Dimensions		20 x 119 x 115 mm (0.8 x 4.7 x 4.5 inch) (W x H x D) , housing type B2
Mounting		on 35 mm DIN mounting rail acc. to EN 60715:2001
Data for application in connection with hazardous areas		
Certificate		UL 22 ATEX 2853 X
Marking		Ⓔ II 3G Ex ec nC IIC T4 Gc
Directive conformity		
Directive 2014/34/EU		EN IEC 60079-0:2018+AC:2020 , EN IEC 60079-7:2015+A1:2018 , EN IEC 60079-15:2019
International approvals		
FM approval		FM 22 US 0031 X
Control drawing		116-0160
UL approval		E106378
CSA approval		CoC 1051840
IECEx approval		
IECEx certificate		IECEx UL 16.0051X
IECEx marking		Ex ec nC IIC T4 Gc
General information		
Supplementary information		Observe the certificates, declarations of conformity, instruction manuals, and manuals where applicable. For information see .

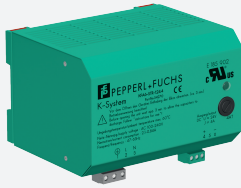
Assembly

Front view



Power Supply

KFA6-STR-1.24.4



- 115/230 V AC supply
- Output 24 V DC, 4 A
- Fused output
- Power Rail connection

Electric power supply; removable terminals; supply voltage 92 V ... 265 V AC; output voltage 24 V DC, 4 A; suitable for Power Rail supply

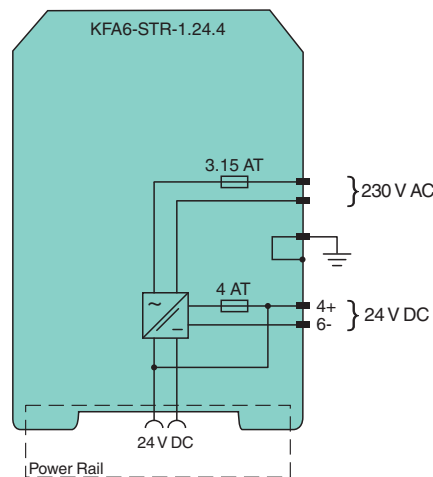


Function

This regulated power supply provides 24 V DC, at 4 A. It features removable terminals, LED fault indication, and mounts directly on the Power Rail. Designed with a replaceable fuse and LED, it will provide a green visual indication for normal operation or a flashing red indication if a fault occurs.

Attention: Ignoring the safety instructions (i. e., touching hot sections when the device is open, handling malpractices) can be extremely dangerous. When exceeding the values stated in the technical data, there is a danger of overheating. As a result, the operation of the power supply and its electrical safety may be impaired. Before starting installation or service, switch mains off. Do not plug or unplug powered!

Connection



Technical Data

Supply

Connection		terminals 1 (PE), 2 (L1), 3 (N)
Rated voltage	U_r	92 ... 265 V AC , 47 ... 63 Hz
Rated current	I_r	2.1 ... 0.84 A
Fusing		back-up fuse : B characteristic: 16 A B characteristic: 10 A C characteristic: 6 A
Failure override time		> 75 ms / 230 V AC ; 5 ms / 115 V AC

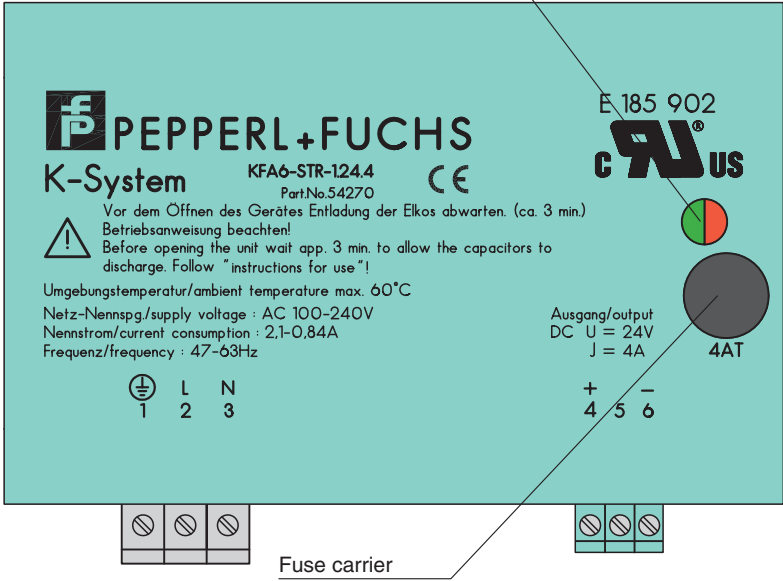
Technical Data

Output		
Connection		terminals 4+, 6-
Current		0 ... 4 A , Power Rail limiting by means of fuse 4 AT , electron. limitation typ. 4.6 A
Output rated operating current		max. 4 A
Output voltage		24 V DC
Ripple		< 100 mV _{ss}
Efficiency		typ. 87 %
Voltage limitation		< 28 V DC
Galvanic isolation		
Power supply/Output		for 253 V AC design insulation voltage
Indicators/settings		
Display elements		LED
Labeling		space for labeling at the front
Directive conformity		
Electromagnetic compatibility		
Directive 2014/30/EU		EN 55011:2009+A1:2010 , EN 61000-3-2:2014 , EN 61000-3-3:2013 , EN 61000-6-1:2007 , EN 61000-6-2:2005 , EN 61000-6-3:2007+A1:2011 , EN 61000-6-4:2007+A1:2011
Low voltage		
Directive 2014/35/EU		EN 61010-1:2010
Conformity		
Degree of protection		IEC 60529:2001
Ambient conditions		
Ambient temperature		-20 ... 60 °C (-4 ... 140 °F)
Mechanical specifications		
Degree of protection		IP20
Connection		self-opening connection terminals
Core cross section		max. 2 x 2.5 mm ²
Mass		approx. 800 g
Dimensions		140 x 101 x 114 mm (5.5 x 4.0 x 4.5 inch) (W x H x D)
Mounting		on 35 mm DIN mounting rail acc. to EN 60715:2001
General information		
Supplementary information		Observe the certificates, declarations of conformity, instruction manuals, and manuals where applicable. For information see .

Assembly

Front view

LED green indicates output voltage,
flashing red indicates a fault exists



Matching System Components

	K-DUCT-GY	Profile rail, wiring comb field side, gray
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Redundant Power Feed Module KFD2-EB2.R4A.B

- Interface for Power Rail
- Used for redundant configuration
- Supply current ≤ 4 A
- Replaceable fuse
- Relay contact output, reversible
- LED status indication

Power feed module, redundant supply



Function

The power feed module supplies the Power Rail with a voltage of 24 V DC and a maximum current of 4 A. The device is designed for applications requiring redundant power.

In the event of a device fault or a wiring fault of any isolator on the Power Rail, the collective error messaging relay alerts the controller via a binary I/O point. This relay can be configured as normally-open or normally-closed.

A green LED on the front of the device indicates the power state, and a red LED lights up during a fault condition.

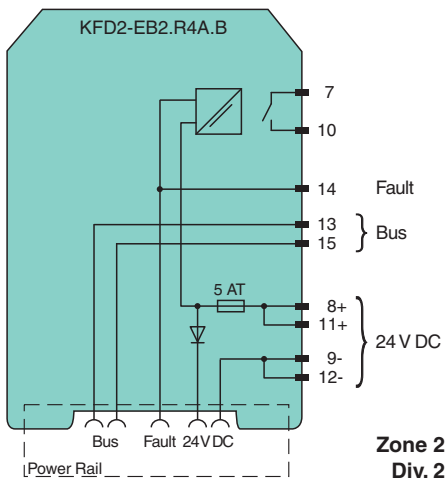
Additionally, the bus implemented in the Power Rail is forwarded to the terminals 13 and 15 for usage with the RS-485 connection of the KFD2-WAC2-Ex1.D device. Terminal 14 is only for test purposes.

In the sense of functional safety (SIL) the device provides no dangerous failures. Thereby the safe condition of the supplied isolators must be defined as the de-energized state. Thus the device will not influence the safety calculation or the SIL value.

This device is compatible with all versions of the Power Rail and provides group fusing.

Note: Redundant systems require 2 KFD2-EB.R4A.B power feed modules.

Connection



Technical Data

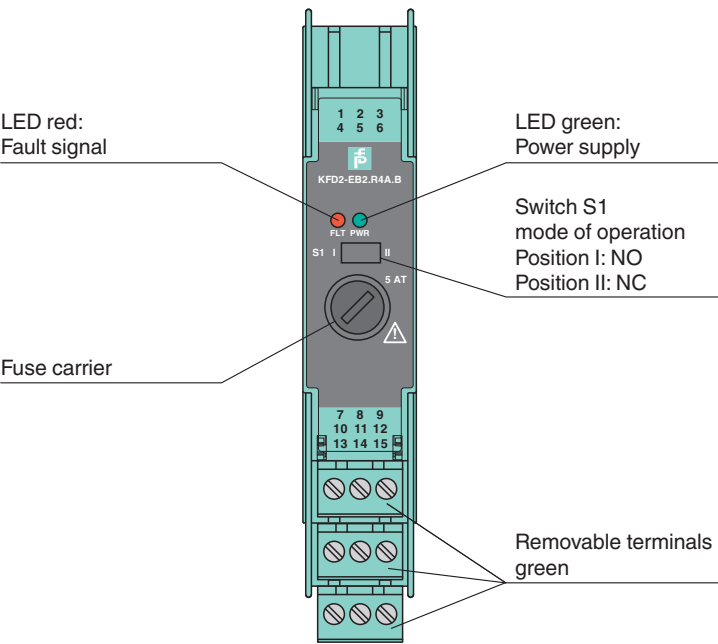
Supply		
Connection		terminals 11+, 12- terminals 8+, 9-
Rated voltage	U_r	20 ... 30 V DC The maximum rated operating voltage of the devices plugged onto the Power Rail must not be exceeded.
Fusing		5 AT/250 V AC recommended maximum utilization of the fuse: 80 %
Power dissipation		≤ 2.4 W

Technical Data

Output		
Connection		Power Rail
Output current		max. 4 A
Output voltage		$U_i \geq \text{rated voltage } U_r = U_i - 0.6 \text{ V}$
Fault signal		relay output: NO contact
Contact loading		30 V AC/ 2 A / $\cos \phi \geq 0.7$; 40 V DC/ 2 A
Energized/De-energized delay		approx. 20 ms / approx. 20 ms
Indicators/settings		
Display elements		LEDs
Control elements		DIP switch
Configuration		via DIP switches
Labeling		space for labeling at the front
Directive conformity		
Electromagnetic compatibility		
Directive 2014/30/EU		EN 61326-1:2013 (industrial locations)
Conformity		
Electromagnetic compatibility		NE 21:2017
Degree of protection		IEC 60529:2001
Ambient conditions		
Ambient temperature		-40 ... 60 °C (-40 ... 140 °F) extended ambient temperature range up to 70 °C (158 °F), refer to manual for necessary mounting conditions
Mechanical specifications		
Degree of protection		IP20
Connection		screw terminals
Mass		approx. 100 g
Dimensions		20 x 119 x 115 mm (0.8 x 4.7 x 4.5 inch) (W x H x D) , housing type B2
Mounting		on 35 mm DIN mounting rail acc. to EN 60715:2001
Data for application in connection with hazardous areas		
Certificate		UL 22 ATEX 2853 X
Marking		Ⓔ II 3G Ex ec nC IIC T4 Gc
Directive conformity		
Directive 2014/34/EU		EN IEC 60079-0:2018+AC:2020 , EN IEC 60079-7:2015+A1:2018 , EN IEC 60079-15:2019
International approvals		
FM approval		FM 22 US 0031 X
Control drawing		116-0160
UL approval		E106378
CSA approval		CoC 1051840
IECEX approval		
IECEX certificate		IECEX UL 16.0051X
IECEX marking		Ex ec nC IIC T4 Gc
General information		
Supplementary information		Observe the certificates, declarations of conformity, instruction manuals, and manuals where applicable. For information see .

Assembly

Front view





Power Feed Module KFD2-EB2.SP

- Interface for Power Rail
- Supply current ≤ 4 A
- Replaceable fuse
- Relay contact output, reversible
- LED status indication
- Connection via spring terminals with push-in connection technology

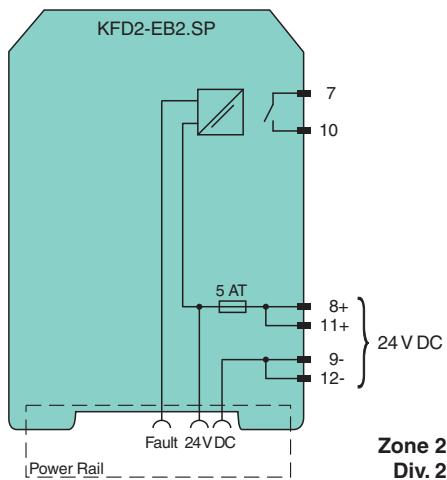
Power feed module with spring terminals



Function

The power feed module supplies the Power Rail with a voltage of 24 V DC and a maximum current of 4 A. In the event of a device fault or a wiring fault of any isolator on the Power Rail, the collective error messaging relay alerts the controller via a binary I/O point. This relay can be configured as normally-open or normally-closed. A green LED on the front of the device indicates the power state, and a red LED lights up during a fault condition. In the sense of functional safety (SIL) the device provides no dangerous failures. Thereby the safe condition of the supplied isolators must be defined as the de-energized state. Thus the device will not influence the safety calculation or the SIL value. This device is compatible with all versions of the Power Rail.

Connection



Technical Data

Supply

Connection		terminals 11+, 12- terminals 8+, 9-
Rated voltage	U_r	20 ... 30 V DC The maximum rated operating voltage of the devices plugged onto the Power Rail must not be exceeded.
Fusing		5 AT/250 V AC recommended maximum utilization of the fuse: 80 %
Power dissipation		≤ 1 W

Output

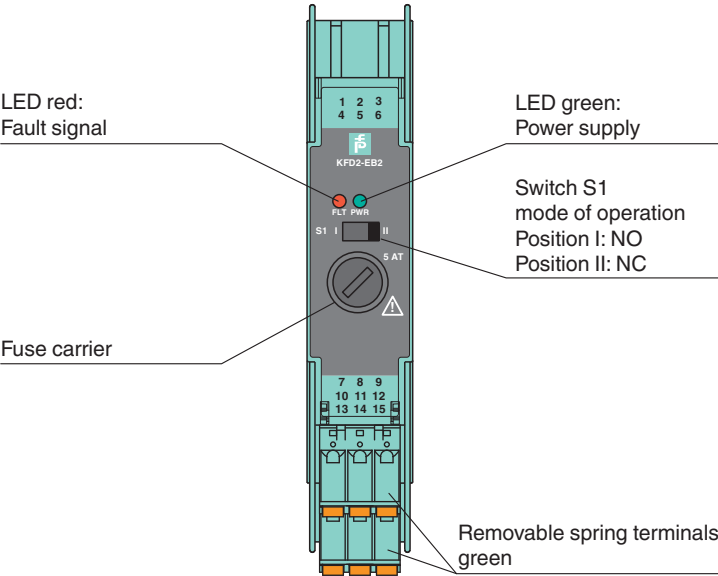
Connection		Power Rail
Output current		max. 4 A

Technical Data

Output voltage		$U_i \geq \text{rated voltage } U_r = U_i - 0.6 \text{ V}$
Fault signal		relay output: NO contact
Contact loading		30 V AC/ 2 A / $\cos \phi \geq 0.7$; 40 V DC/ 2 A
Energized/De-energized delay		approx. 20 ms / approx. 20 ms
Indicators/settings		
Display elements		LEDs
Control elements		DIP switch
Configuration		via DIP switches
Labeling		space for labeling at the front
Directive conformity		
Electromagnetic compatibility		
Directive 2014/30/EU		EN 61326-1:2013 (industrial locations)
Conformity		
Electromagnetic compatibility		NE 21:2017
Degree of protection		IEC 60529:2001
Ambient conditions		
Ambient temperature		-40 ... 70 °C (-40 ... 158 °F)
Mechanical specifications		
Degree of protection		IP20
Connection		spring terminals
Mass		approx. 100 g
Dimensions		20 x 119 x 115 mm (0.8 x 4.7 x 4.5 inch) (W x H x D) , housing type B2
Mounting		on 35 mm DIN mounting rail acc. to EN 60715:2001
Data for application in connection with hazardous areas		
Certificate		UL 22 ATEX 2853 X
Marking		Ⓔ II 3G Ex ec nC IIC T4 Gc
Directive conformity		
Directive 2014/34/EU		EN IEC 60079-0:2018+AC:2020 , EN IEC 60079-7:2015+A1:2018 , EN IEC 60079-15:2019
International approvals		
FM approval		FM 22 US 0031 X
Control drawing		116-0160
UL approval		E106378
CSA approval		CoC 1051840
IECEx approval		
IECEx certificate		IECEx UL 16.0051X
IECEx marking		Ex ec nC IIC T4 Gc
General information		
Supplementary information		Observe the certificates, declarations of conformity, instruction manuals, and manuals where applicable. For information see .

Assembly

Front view





Redundant Power Feed Module KFD2-EB2.R4A.B.SP

- Interface for Power Rail
- Used for redundant configuration
- Supply current ≤ 4 A
- Replaceable fuse
- Relay contact output, reversible
- LED status indication
- Connection via spring terminals with push-in connection technology

Power feed module with spring terminals, redundant supply



Function

The power feed module supplies the Power Rail with a voltage of 24 V DC and a maximum current of 4 A. The device is designed for applications requiring redundant power.

In the event of a device fault or a wiring fault of any isolator on the Power Rail, the collective error messaging relay alerts the controller via a binary I/O point. This relay can be configured as normally-open or normally-closed.

A green LED on the front of the device indicates the power state, and a red LED lights up during a fault condition.

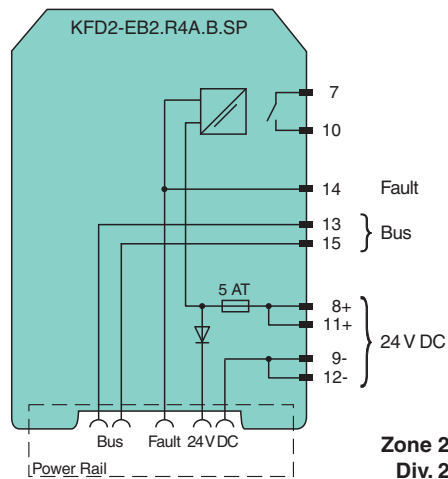
Additionally, the bus implemented in the Power Rail is forwarded to the terminals 13 and 15 for usage with the RS-485 connection of the KFD2-WAC2-Ex1.D device. Terminal 14 is only for test purposes.

In the sense of functional safety (SIL) the device provides no dangerous failures. Thereby the safe condition of the supplied isolators must be defined as the de-energized state. Thus the device will not influence the safety calculation or the SIL value.

This device is compatible with all versions of the Power Rail and provides group fusing.

Note: Redundant systems require 2 KFD2-EB.R4A.B power feed modules.

Connection



Technical Data

Supply		
Connection		terminals 11+, 12- terminals 8+, 9-
Rated voltage	U_r	20 ... 30 V DC The maximum rated operating voltage of the devices plugged onto the Power Rail must not be exceeded.
Fusing		5 AT/250 V AC recommended maximum utilization of the fuse: 80 %
Power dissipation		≤ 2.4 W

Technical Data

Output

Connection		Power Rail
Output current		max. 4 A
Output voltage		$U_i \geq \text{rated voltage } U_r = U_i - 0.6 \text{ V}$
Fault signal		relay output: NO contact
Contact loading		30 V AC/ 2 A / $\cos \phi \geq 0.7$; 40 V DC/ 2 A
Energized/De-energized delay		approx. 20 ms / approx. 20 ms

Indicators/settings

Display elements		LEDs
Control elements		DIP switch
Configuration		via DIP switches
Labeling		space for labeling at the front

Directive conformity

Electromagnetic compatibility		
Directive 2014/30/EU		EN 61326-1:2013 (industrial locations)

Conformity

Electromagnetic compatibility		NE 21:2017
Degree of protection		IEC 60529:2001

Ambient conditions

Ambient temperature		-40 ... 60 °C (-40 ... 140 °F) extended ambient temperature range up to 70 °C (158 °F), refer to manual for necessary mounting conditions
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Mechanical specifications

Degree of protection		IP20
Connection		spring terminals
Mass		approx. 100 g
Dimensions		20 x 119 x 115 mm (0.8 x 4.7 x 4.5 inch) (W x H x D) , housing type B2
Mounting		on 35 mm DIN mounting rail acc. to EN 60715:2001

Data for application in connection with hazardous areas

Certificate		UL 22 ATEX 2853 X
Marking		Ⓔ II 3G Ex ec nC IIC T4 Gc
Directive conformity		
Directive 2014/34/EU		EN IEC 60079-0:2018+AC:2020 , EN IEC 60079-7:2015+A1:2018 , EN IEC 60079-15:2019

International approvals

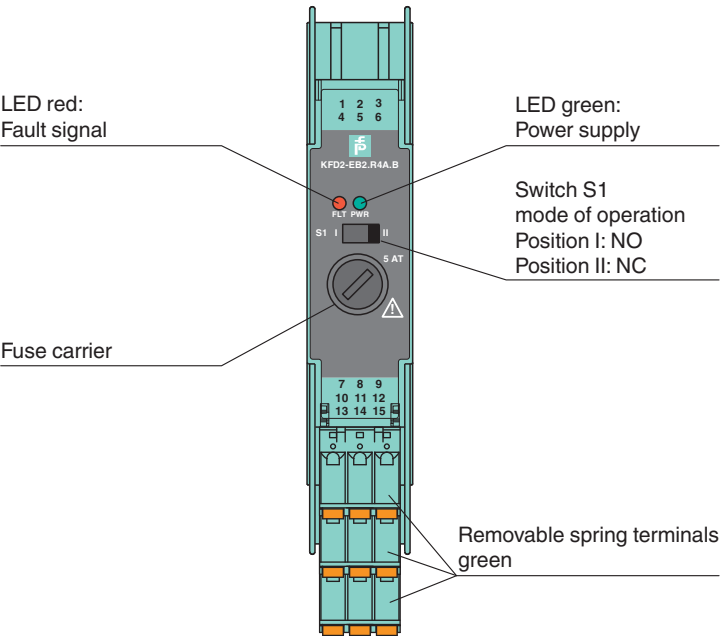
FM approval		FM 22 US 0031 X
Control drawing		116-0160
UL approval		E106378
CSA approval		CoC 1051840
IECEX approval		
IECEX certificate		IECEX UL 16.0051X
IECEX marking		Ex ec nC IIC T4 Gc

General information

Supplementary information		
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Assembly

Front view



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Хабаровск (4212)92-98-04
Чебоксары (8352)28-53-07
Челябинск (351)202-03-61
Череповец (8202)49-02-64
Чита (3022)38-34-83
Якутск (4112)23-90-97
Ярославль (4852)69-52-93

Россия +7(495)268-04-70

Казахстан +7(727) 345-47-04

Беларусь +(375) 257-127-884

Узбекистан +998(71)205-18-59

Киргизия +996(312)96-26-47

эл.почта: phb@nt-rt.ru || сайт: <https://pepperl-fuchs.nt-rt.ru/>