

# Voltage Repeater KFD2-VR2-Ex1.500M

- 1-channel isolated barrier
- 24 V DC supply (Power Rail)
- Voltage input 0 mV ... ± 500 mV
- Voltage output 0 mV ... ± 500 mV
- Selectable up/downscale sensor breakage detection











#### **Function**

This isolated barrier is used for intrinsic safety applications.

It transfers low voltage signals from load cells, strain gauges, operational amplifiers, and inductive oscillation sensors located in hazardous areas

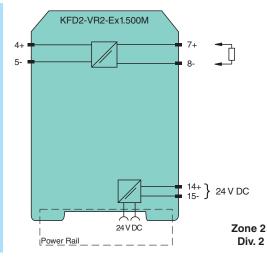
The input voltage of the terminals 4 and 5 is transferred to the terminals 7 and 8.

The input, output, and power supply are galvanically isolated from each other. Upscale or downscale lead breakage monitoring is selectable via switches located on the front panel of the device.

Note: This unit requires three minutes after power-up to reach the accuracy cited in the technical data.

#### Connection







Release date: 2021-11-25 Date of issue: 2021-11-25 Filename: 208393\_eng.pdf

Zone 0, 1, 2 Div. 1. 2

#### **Technical Data**

General specifications		
Signal type		Analog input
Supply		
Connection		Power Rail or terminals 14+, 15-
Rated voltage	Ur	19 30 V DC
Ripple		within the supply tolerance
Rated current	l <sub>r</sub>	≤11 mA
Power dissipation/power consumption		0.3 W max.
Input		

Refer to "General Notes Relating to Pepperl+Fuchs Product Information"

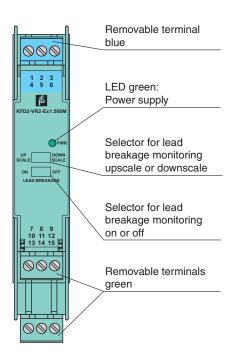
-500 mV  Influence of ambient temperature	Technical Data		
Input resistance	Connection side		field side
Input resistance	Connection		terminals 4+, 5-
Transmission range	Input resistance		
Offset voltage/current         ≤ 5 μV ≤ 5 n A           Line fault detection         1.3 μ A           Output         Connection side           Connection         terminals 2+, 8+           Voltage         >500500 mV           Load         Accuracy figures for infinite load impedance. Additional 0.03 % of span for a load resistance of 10 kΩ           Fault signal         sensor breakage.> > 500 mV (upscale), < -500 mV (downscale)	·		
Line fault detection         1.3 μA           Output         Connection           Connection         terminals 7+, 8-           Voltage         -500 500 mV           Load         Accuracy figures for infinite load impedance. Additional 0,03 % of span for a load resistance of 10 kΩ           Fault signal         sensor breakages > +500 mV (upscalo), < -500 mV (downscale)	•		
Output         Connection         control side           Connection         terminals 7+, 8-           Voltage         500500 mV           Load         Accuracy Signues for infinite load impedance. Additional 0,03 % of span for a load resistance of 10 kΩ           Fault signal         search resistance of 10 kΩ           Output resistance         max. 9 Ω           Transfer characteristics         search resistance of 10 kΩ           Cut-off frequency         550 Hz (-3 dB)           Deviation         at 20 °C (68 °F):	-		·
Connection side         control side           Connection         terminals 7+, 8-           Voltage         500 500 mV           Load         Accuracy figures for infinite load impedance. Additional 0.03 % of span for a load resistance of 10 kΩ           Fault signal         sensor breakage: > +500 mV (upscale), < -500 mV (downscale)           Output resistance         xm. 3 Ω           Transfer Characteristics         Transfer characteristics           Cut-off frequency         350 Hz (-3 dB)           Deviation         ± 20 °C (68 °F): ± 30 μV up to ± 100mV/± 0.03 % of the span up to +500 mV/± 0.03 % of the span span with the span up to +500 mV/± 0.03 % of the span span with the span up to +500 mV/± 0.03 % of the span span with the span up to +500 mV/± 0.03 % of the span span with the span up to +500 mV/± 0.03 % of the span up to +500 mV/			1.5 μ 1
Voltage	•		control side
Voltage			
Accuracy figures for infinite load impedance. Additional 0.03 % of span for a load resistance of 10 kΩ sensor breakage: > +500 mV (upscale), < -500 mV (downscale) (max. 3 Ω) (and the processes of the proces			
Output resistance         max. 3 Ω           Transfer characteristics         550 Hz (-3 dB)           Cut-off frequency         350 Hz (-3 dB)           Deviation         at 20 °C (68 °F): ±30 μ/V to ±100 mV/± 0.03 % of the span up to +500 mV/± 0.03 % of the sp			Accuracy figures for infinite load impedance. Additional 0.03 % of span for a load
Output resistance         max. 3 Ω           Transfer characteristics         So Hz (-3 dB)           Cut-off frequency         350 Hz (-3 dB)           Deviation         at 20 °C (68 °F); a 30 µV up to ± 100mV/± 0.03 % of the span up to +500 mV/± 0.03 % of the	Fault signal		sensor breakage: > +500 mV (upscale), < -500 mV (downscale)
Cut-off frequency         350 Hz (-3 dB)           Deviation         at 20 °C (68 °F): ±30 μV μp to ± 100mV/± 0.03 % of the span up to +500 mV/± 0.03 % of the span up to -500 mV/± 0.03 % of the span up to +500 mV/± 0.03 % of th	Output resistance		
Deviation	Transfer characteristics		
Deviation         at 20 °C (68 °F): ± 30 μV up to ± 100mV/± 0.03 % of the span up to +500 mV/± 0.03 % of the span up to +5	Cut-off frequency		350 Hz (-3 dB)
After calibration			
Absolute         < 0.25 K at 30 V voltage supply	After calibration		$\pm$ 30 $\mu$ V up to $\pm$ 100mV/ $\pm$ 0.03 % of the span up to +500 mV/ $\pm$ 0.03 % of the span up
Absolute	Influence of ambient temperature		$\pm$ 10 $\mu$ V/K (typical $\pm$ 5 $\mu$ V/K)
Galvanic isolation           Output/power supply         functional insulation, rated insulation voltage 50 V AC           Indicators/settlings         Implication           Display elements         LED           Control elements         DIP switch           Configuration         via DIP switches           Labeling         space for labeling at the front           Directive conformity           Electromagnetic compatibility         Electromagnetic compatibility           Directive 2014/30/EU         EN 61326-1:2013 (industrial locations)           Conformity           Electromagnetic compatibility         NE 21:2006           Degree of protection         IEC 60529:2001           Protection against electrical shock         Ut 61010-1           Ambient temperature         -20 60 °C (-4 140 °F)           Mechanical specifications           Degree of protection         IP20           Connection         P20           Connection         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 hazardowarea           EU-type examination certificate         BA	·		
Dutput/power supply	Rise time		
Display elements	Galvanic isolation		
Display elements			functional insulation, rated insulation voltage 50 V AC
Display elements			
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 21:2006           Degree of protection         IEC 60529:2001           Protection against electrical shock         UL 61010-1           Ambient conditions           Ambient conditions           Mechanical specifications           IP20           Connection         IP20           Connection         IP20           Connection         screw terminals           Mass         approx. 125 g         approx. 125 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 hazar-tosa           EU-type examination certificate         BASEEFA 06 ATEX 0040           Marking         BI (1)GD, I (M1) [Ex ia Ga] IIC, [Ex ia Da] IIIC, [Ex ia Ma] I (-20			LED
Configuration         via DIP switches           Labeling         space for labeling at the front           Directive conformity           Electromagnetic compatibility         EN 61326-1:2013 (industrial locations)           Conformity           Electromagnetic compatibility         NE 21:2006           Degree of protection         IEC 60529:2001           Protection against electrical shock         UL 61010-1           Ambient conditions           Ambient temperature         -20 60 °C (-4 140 °F)           Mechanical specifications         IP20           Connection         screw terminals           Mass         approx. 125 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           EU-type examination certificate         BASEEFA 06 ATEX 0040           Marking         © II (1)(GD, I (MT) [Ex ia Ga] IIC, [Ex ia Da] IIIC, [Ex ia Ma] I (-20 °C ≤ T <sub>amb</sub> ≤ 60 °C (circuitt(s) in zone 0/1/2]           Voltage         U <sub>o</sub> 5.5 V DC           Current         I <sub>o</sub> 2.4 mA           Power         P <sub>o</sub> 3.3 mW			
Labeling         space for labeling at the front           Directive conformity           Electromagnetic compatibility         EN 61326-1:2013 (industrial locations)           Conformity           Electromagnetic compatibility         NE 21:2006           Degree of protection         IEC 60529:2001           Protection against electrical shock         UL 61010-1           Ambient conditions           Ambient temperature         -20 60 °C (-4 140 °F)           Mechanical specifications           Degree of protection         IP20           Connection         screw terminals           Mass         approx. 125 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           EU-type examination certificate         BASEEFA 06 ATEX 0040           Marking         © II (1)GD, I (M1) [Ex ia Ga] IIC, [Ex ia Da] IIIC, [Ex ia Ma] I (-20 °C ≤ T <sub>amb</sub> ≤ 60 °C (circuit(s) in zone 0/1/2]           Voltage         U <sub>o</sub> 5.5 V DC           Current         I <sub>o</sub> 2.4 mA           Power         P <sub>o</sub> 3.3 mW			
Directive conformity           Electromagnetic compatibility         EN 61326-1:2013 (industrial locations)           Conformity           Electromagnetic compatibility         NE 21:2006           Degree of protection         IEC 60529:2001           Protection against electrical shock         UL 61010-1           Ambient conditions           Ambient temperature         -20 60 °C (-4 140 °F)           Mechanical specifications         IP20           Connection         screw terminals           Mass         approx. 125 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           EU-type examination certificate         BASEEFA 06 ATEX 0040           Marking         © II (1)GD, I (M1) [Ex ia Ga] IIC, [Ex ia Da] IIIC, [Ex ia Ma] I (-20 °C ≤ T <sub>amb</sub> ≤ 60 °C (circiuti(s) in zone 0/1/2]           Voltage         U₀         5.5 V DC           Current         I₀         2.4 mA           Power         P₀         3.3 mW	-		
Electromagnetic compatibility   Directive 2014/30/EU   EN 61326-1:2013 (industrial locations)	•		opace for labeling at the front
Directive 2014/30/EU         EN 61326-1:2013 (industrial locations)           Conformity           Electromagnetic compatibility         NE 21:2006           Degree of protection         IEC 60529:2001           Protection against electrical shock         UL 61010-1           Ambient conditions         UL 61010-1           Ambient temperature         -20 60 °C (-4 140 °F)           Mechanical specifications         IP20           Degree of protection         IP20           Connection         screw terminals           Mass         approx. 125 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         EU-type examination certificate         BASEEFA 06 ATEX 0040           Marking         © II (1)GD, I (M1) [Ex ia Ga] IIC, [Ex ia Da] IIIC, [Ex ia Ma] I (-20 °C ≤ T <sub>amb</sub> ≤ 60 °C (circutit(s) in zone 0/1/2]           Voltage         U₀         5.5 V DC           Current         I₀         2.4 mA           Power         P₀         3.3 mW	•		
Electromagnetic compatibility  Electromagnetic compatibility  Degree of protection  Protection against electrical shock  Ambient conditions  Ambient conditions  Ambient temperature  -20 60 °C (-4 140 °F)  Mechanical specifications  Degree of protection  Screw terminals  approx. 125 g  Dimensions  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  EU-type examination certificate  Marking  Will (1)GD, I (M1) [Ex ia Ga] IIC, [Ex ia Da] IIIC, [Ex ia Ma] I (-20 °C ≤ T <sub>amb</sub> ≤ 60 °C (circuit(s) in zone 0/1/2]  Voltage  Uo  5.5 V DC  Current  Io  2.4 mA  Power  Po  3.3 mW  Supply	, ,		EN 61326-1:2013 (industrial locations)
Electromagnetic compatibility         NE 21:2006           Degree of protection         IEC 60529:2001           Protection against electrical shock         UL 61010-1           Ambient conditions         -20 60 °C (-4 140 °F)           Mechanical specifications         IP20           Degree of protection         IP20           Connection         screw terminals           Mass         approx. 125 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         EU-type examination certificate         BASEEFA 06 ATEX 0040           Marking         © II (1)GD, I (M1) [Ex ia Ga] IIC, [Ex ia Da] IIIC, [Ex ia Ma] I (-20 °C ≤ T <sub>amb</sub> ≤ 60 °C [circuit(s) in zone 0/1/2]           Voltage         U₀         5.5 V DC           Current         I₀         2.4 mA           Power         P₀         3.3 mW           Supply			EN 01320-1.2013 (Industrial locations)
Degree of protection         IEC 60529:2001           Protection against electrical shock         UL 61010-1           Ambient conditions         UL 6010-1           Ambient temperature         -20 60 °C (-4 140 °F)           Mechanical specifications         IP20           Connection         screw terminals           Mass         approx. 125 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         EU-type examination certificate         BASEEFA 06 ATEX 0040           Marking         ® II (1)GD, I (M1) [Ex ia Ga] IIC, [Ex ia Da] IIIC, [Ex ia Ma] I (-20 °C ≤ T <sub>amb</sub> ≤ 60 °C [circuit(s) in zone 0/1/2]           Voltage         U₀         5.5 V DC           Current         I₀         2.4 mA           Power         P₀         3.3 mW           Supply			NE 21:2006
Protection against electrical shock         UL 61010-1           Ambient conditions         -20 60 °C (-4 140 °F)           Mechanical specifications         IP20           Degree of protection         IP20           Connection         screw terminals           Mass         approx. 125 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         EU-type examination certificate         BASEEFA 06 ATEX 0040           Marking         ⑤ II (1)GD, I (M1) [Ex ia Ga] IIC, [Ex ia Da] IIIC, [Ex ia Ma] I (-20 °C ≤ T <sub>amb</sub> ≤ 60 °C [circuit(s) in zone 0/1/2]           Voltage         U₀         5.5 V DC           Current         I₀         2.4 mA           Power         P₀         3.3 mW           Supply			
Ambient conditions  Ambient temperature -20 60 °C (-4 140 °F)  Mechanical specifications  Degree of protection IP20  Connection screw terminals  Mass approx. 125 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  EU-type examination certificate BASEEFA 06 ATEX 0040  Marking □ II (1)GD, I (M1) [Ex ia Ga] IIC, [Ex ia Da] IIIC, [Ex ia Ma] I (-20 °C ≤ T <sub>amb</sub> ≤ 60 °C [circuit(s) in zone 0/1/2]  Voltage U₀ 5.5 V DC  Current I₀ 2.4 mA  Power P₀ 3.3 mW  Supply			
Ambient temperature       -20 60 °C (-4 140 °F)         Mechanical specifications       IP20         Connection       screw terminals         Mass       approx. 125 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         EU-type examination certificate       BASEEFA 06 ATEX 0040         Marking       BI (1)GD, I (M1) [Ex ia Ga] IIC, [Ex ia Da] IIIC, [Ex ia Ma] I (-20 °C ≤ T <sub>amb</sub> ≤ 60 °C [circuit(s) in zone 0/1/2]         Voltage       U₀       5.5 V DC         Current       I₀       2.4 mA         Power       P₀       3.3 mW         Supply	-		OL 61010-1
Mechanical specificationsDegree of protectionIP20Connectionscrew terminalsMassapprox. 125 gDimensions $20 \times 119 \times 115 \text{ mm} (0.8 \times 4.7 \times 4.5 \text{ inch}) (W \times H \times D)$ , housing type B2Mountingon 35 mm DIN mounting rail acc. to EN 60715:2001Data for application in connection with hazardous areasEU-type examination certificateBASEEFA 06 ATEX 0040Marking $\mathbb{B} \  \  \  \  \  \  \  \  \  \  \  \  \  \  \  \  \  \  \ $			00 0000 / 4 14005
Degree of protection IP20  Connection screw terminals  Mass approx. 125 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  EU-type examination certificate BASEEFA 06 ATEX 0040  Marking BASEEFA 06 ATEX 0040  Marking BASEEFA 06 ATEX 0040 $\mathbb{P}[I][I][I][I][I][I][I][I][I][I][I][I][I][$			-20 60 °C (-4 140 °F)
Connection screw terminals  Mass approx. 125 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  EU-type examination certificate BASEEFA 06 ATEX 0040  Marking BI (1)GD, I (M1) [Ex ia Ga] IIC, [Ex ia Da] IIIC, [Ex ia Ma] I (-20 °C $\leq$ T <sub>amb</sub> $\leq$ 60 °C [circuit(s) in zone 0/1/2]  Voltage U <sub>o</sub> 5.5 V DC  Current I <sub>o</sub> 2.4 mA  Power P <sub>o</sub> 3.3 mW  Supply	-		IDOO
Mass approx. 125 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  EU-type examination certificate BASEEFA 06 ATEX 0040  Marking			
Dimensions $ 20 \times 119 \times 115 \text{ mm } (0.8 \times 4.7 \times 4.5 \text{ inch}) \text{ (W x H x D) , housing type B2} $ Mounting on 35 mm DIN mounting rail acc. to EN 60715:2001 <b>Data for application in connection with hazardous areas</b> EU-type examination certificate BASEEFA 06 ATEX 0040  Marking			
Mounting on 35 mm DIN mounting rail acc. to EN 60715:2001 <b>Data for application in connection with hazardous areas</b> EU-type examination certificate BASEEFA 06 ATEX 0040  Marking $\textcircled{SII}(1)$ GD, $I(M1)$ [Ex ia Ga] IIC, [Ex ia Da] IIIC, [Ex ia Ma] $I(-20  ^{\circ}\text{C} \le T_{amb} \le 60  ^{\circ}\text{C}$ [circuit(s) in zone $0/1/2$ ]  Voltage $U_{o}$ 5.5 V DC  Current $I_{o}$ 2.4 mA  Power $P_{o}$ 3.3 mW  Supply			
Data for application in connection with hazardous areas         EU-type examination certificate       BASEEFA 06 ATEX 0040         Marking       ⑤ II (1)GD, I (M1) [Ex ia Ga] IIC, [Ex ia Da] IIIC, [Ex ia Ma] I (-20 °C ≤ T <sub>amb</sub> ≤ 60 °C [circuit(s) in zone 0/1/2]         Voltage       U₀       5.5 V DC         Current       I₀       2.4 mA         Power       P₀       3.3 mW         Supply			
EU-type examination certificate  BASEEFA 06 ATEX 0040  Marking $\bigcirc$ II (1)GD, I (M1) [Ex ia Ga] IIC, [Ex ia Da] IIIC, [Ex ia Ma] I (-20 °C $\leq$ T <sub>amb</sub> $\leq$ 60 °C [circuit(s) in zone 0/1/2]  Voltage  U <sub>o</sub> 5.5 V DC  Current I <sub>o</sub> 2.4 mA  Power P <sub>o</sub> 3.3 mW  Supply			-
Marking $\begin{tabular}{ll} \begin{tabular}{ll} \begin{tabular}{$		ardous a	
Voltage         U <sub>o</sub> 5.5 V DC           Current         I <sub>o</sub> 2.4 mA           Power         P <sub>o</sub> 3.3 mW           Supply	• •		⑤ II (1)GD, I (M1) [Ex ia Ga] IIC, [Ex ia Da] IIIC, [Ex ia Ma] I (-20 °C ≤ $T_{amb}$ ≤ 60 °C),
Current         I <sub>o</sub> 2.4 mA           Power         P <sub>o</sub> 3.3 mW           Supply         Supply	Voltage	11	
Power P <sub>o</sub> 3.3 mW Supply	-	_	
Supply			
		P <sub>0</sub>	U.U IIIVV
MAXIMUM SATE VOITAGE II. 250 V (Attention) The rated voltage can be lower to	***		OFO V (Attention) The united collision and had a second
Maximum date voltage of the lower.)	Maximum safe voltage	U <sub>m</sub>	250 V (Attention! The rated voltage can be lower.)



0.15	DAOFFEA OO ATEV OOLOV
Certificate	BASEEFA 09 ATEX 0219X
Marking	
Galvanic isolation	
Input/Output	safe electrical isolation acc. to IEC/EN 60079-11, voltage peak value 375 V
Input/power supply	safe electrical isolation acc. to IEC/EN 60079-11, voltage peak value 375 V
Directive conformity	
Directive 2014/34/EU	EN 60079-0:2012+A11:2013 , EN 60079-7:2015+A1:2018 , EN 60079-11:2012
International approvals	
UL approval	
Control drawing	116-0334 (cULus)
IECEx approval	
IECEx certificate	IECEx BAS 06.0011 IECEx BAS 09.0103X
IECEx marking	[Ex ia Ga] IIC , [Ex ia Da] IIIC , [Ex ia Ma] I Ex ec 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**

#### Front view



# **Matching System Components**

SI	KFD2-EB2	Power Feed Module
	UPR-03	Universal Power Rail with end caps and cover, 3 conductors, length: 2 m
	UPR-03-M	Universal Power Rail with end caps and cover, 3 conductors, length: 1,6 m

**UPR-03-S** Universal Power Rail with end caps and cover, 3 conductors, length: 0.8 m

**K-DUCT-BU** Profile rail, wiring comb field side, blue



**K-DUCT-BU-UPR-03** Profile rail with UPR-03- \* insert, 3 conductors, wiring comb field side, blue

## **Accessories**

	KF-ST-5GN	Terminal block for KF modules, 3-pin screw terminal, green
	KF-ST-5BU	Terminal block for KF modules, 3-pin screw terminal, blue
*	KF-CP	Red coding pins, packaging unit: 20 x 6