

FIELDBUS

Power Hub with Power Supply Modules



KLD2-FBPS-1.25.360	Fieldbus Power Supply, 25 V/360 mA, stand-alone, DIN-rail mountable
HD2-FBPS-1.25.360	Fieldbus Power Supply, 25 V/360 mA, motherboard based mountable
HD2-FBPS-1.500	Fieldbus Power Supply, 30 V/500 mA, motherboard based mountable
HD2-FBPS-1.23.500	Fieldbus Power Supply, 23 V/500 mA, motherboard based mountable
HD2-FBPS-1.17.500	Fieldbus Power Supply, 17 V/500 mA, motherboard based mountable

Power Hub Motherboard



MB-FB-1R	Power Hub Motherboard, 1 channel, redundant
MB-FB-2R	Power Hub Motherboard, 2 channels, redundant
MB-FB-4	Power Hub Motherboard, 4 channels
MB-FB-4R	Power Hub Motherboard, 4 channels, redundant
MBHD-FB-4R	Power Hub Motherboard, high-density design, 4 channels, redundant

Advanced Diagnostic Module (ADM) for Power Hub



HD2-DM-A	Advanced Diagnostic Module, auxiliary module for physical layer diagnostics, motherboard mountable
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Segment Protector



R2-SP-N4	Fieldbus distribution interface, Segment Protector with trunk short circuit protection, 4 channels, for cabinet and enclosed installation
R2-SP-N6	Fieldbus distribution interface, Segment Protector with trunk short circuit protection, 6 channels, for cabinet and enclosed installation
R2-SP-N8	Fieldbus distribution interface, Segment Protector with trunk short circuit protection, 8 channels, for cabinet and enclosed installation
R2-SP-N10	Fieldbus distribution interface, Segment Protector with trunk short circuit protection, 4 channels, for cabinet and enclosed installation
R2-SP-N12	Fieldbus distribution interface, Segment Protector with trunk short circuit protection, 4 channels, for cabinet and enclosed installation
RM-SPTM-N2	Fieldbus distribution interface, Modular Segment Protector with trunk short circuit protection, Trunk module, 2 output channels
RM-SPEM-N4	Fieldbus distribution interface, Modular Segment Protector with trunk short circuit protection, Extension module, 4 output channels

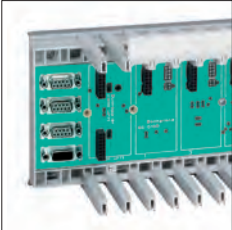
Field Barrier



RD0-FB-Ex4	FieldBarrier, Fieldbus distribution interface 4 intrinsically safe outputs in acc.to FISCO, fixed connectors
RD0-FB-Ex4.COM	FieldBarrier, Fieldbus distribution interface 4 intrinsically safe outputs in acc.to FISCO, pluggable connectors

REMOTE I/O

Stations/Backplane Zone 2 or safe area



LB 9022	LB-Backplane, redundant for 12 single or 6 double modules, 3 power supplies
LB 9023	LB-Backplane, base unit for 8 single or 4 double modules, 1 power supply
LB 9024	LB-Backplane, extension unit for 22 single or 11 double modules, 3 power supplies
LB 9025	LB-Backplane, extension unit for 8 single or 4 double modules, 1 power supply
LB 9026	LB-Backplane, base unit for 16 single or 8 double modules, 2 power supplies
LB 9027	LB-Backplane, extension unit for 16 single or 8 double modules, 2 power supplies
LB 9029	LB-Backplane, redundant for 12 single or 6 double modules, 3 power supplies
LB 9035	LB-Backplane, Foundation Fieldbus for 5 double modules, 1 power supply

Power Supply Zone 2 or safe area



LB 9006	Power supply, 24V DC
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Communications Unit Zone 2 or safe area



LB 8105	PROFIBUS ComUnit (Standard)
LB 8106	EasyCom ComUnit (PROFIBUS)
LB 8107	MODBUS ComUnit
LB 8108	PROFIBUS ComUnit (Timestamp)
LB 8109	PROFIBUS ComUnit (UniCom)
LB 8110	FF ComUnit

Digital Input Zone 2 or safe area



LB 1x01	Digital input, 2 isolated channels
LB 1x02	Digital input, 3 channels
LB 1x03	Digital input, 1 channel, frequency, counter
LB 1007	Digital input, 7 channels
LB 1x08	Digital input, 8 channels
LB 1014	Digital input, 15 channels, 230V
LB 1015	Digital input, 15 channels, 24V

model code x = 0 Non IS, X = 1 IS (intrinsically safe)

Digital output with feedback Zone 2 or safe area



LB 2101	Digital out with feedback, 22V, 315 Ohm
LB 2102	Digital out with feedback, 24V, 210 Ohm
LB 2103	Digital out with feedback, 24V, 360 Ohm
LB 2104	Digital out with feedback, 22V, 220 Ohm
LB 2105	Digital out with feedback, 22.8V, 290 Ohm
LB 2112	Digital out with feedback, 25.3V, 329 Ohm
LB 2113	Digital out with feedback, 26.7V, 509 Ohm

Digital output (Relay) Zone 2 or safe area



LB 6101	Relay output, 2 channels, 230V
LB 6005	Relay output, 4 channels, 230V
LB 6006	Relay output, 8 channels, 24V
	non IS

Digital output, active Zone 2 or safe area



LB 6108	Digital output, 8 channels, 20V, 8 mA low power
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Digital output, active Zone 2 or safe area



LB 6110	Digital out, 4 channels, 24.5V, 370 Ohms
LB 6111	Digital out, 4 channels, 24.5V, 320 Ohms
LB 6112	Digital out, 4 channels, 17V, 185 Ohms
LB 6113	Digital out, 4 channels, 23V, 290 Ohms
LB 6114	Digital out, 4 channels, 23V, 355 Ohms
LB 6115	Digital out, 4 channels, 16.2V, 78 Ohms

Analog input (current) Zone 2 or safe area



LB 3102	Analog input, 1 channel, HART
LB 3105	Analog input, 4 channels, HART

Analog input (Temperature, voltage) Zone 2 or safe area



LB 5101	Analog input, RTD
LB 5102	Analog input, thermocouples, mV
LB 5104	Analog input, RTD, 4 channels
LB 5105	Analog input, thermocouples, mV, 4 channels
LB 5106	Analog input, 10V

Analog output (current) Zone 2 or safe area

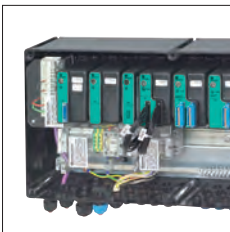


LB 4102	Analog output, HART
LB 4105	Analog output, HART, 4 channels

Stations/Backplane Zone 1



FB 9224	FB base unit, 24 I/O slots
FB 9225	FB redundancy unit
FB 9226	FB station, 10 I/O slots
FB 9248	FB base and extension unit, 48 I/O slots
FB 9249	FB redundant station, 48 I/O slots
FB 9251	FB Foundation Fieldbus Modular I/O, 5 dual slots



Power Supplies Zone 1



FB 9206	Power supply 24V DC
FB 9215	Power supply 230V AC
FB 9216	Power supply 115V AC

Bus termination modules Zone 1



FB 9293	Bus termination module for servicebus
FB 9294	Bus termination module for fieldbus
FB 9295	Bus termination module for field- and service bus

Communication units Zone 1



FB 8205	PROFIBUS ComUnit (Standard)
FB 8206	EasyCOM ComUnit (PROFIBUS)
FB 8207	MODBUS ComUnit
FB 8209	PROFIBUS ComUnit (UniCom)
FB 8210	FF ComUnit

Digital input Zone 1



FB 1201	Digital input, 2 isolated channels
FB 1202	Digital input, 3 channels
FB 1203	Digital input, 1 channel, frequency, counter
FB 1208	Digital input, 8 channels

Digital output with feedback Zone 1



FB 2201	Digital out with feedback, 22V, 315 Ohm
FB 2202	Digital out with feedback, 24V, 210 Ohm
FB 2203	Digital out with feedback, 24V, 360 Ohm
FB 2204	Digital out with feedback, 22V, 220 Ohm
FB 2205	Digital out with feedback, 22.8V, 290 Ohm
FB 2212	Digital out with feedback, 25.3V, 329 Ohm
FB 2213	Digital out with feedback, 26.7V, 509 Ohm

Digital output, relay Zone 1



FB 6301	Relay output, 2 channels, 230V
FB 6305	Relay output, 4 channels, 230V
FB 6306	Relay output, 8 channels, 24V

increased safety

Digital output Zone 1



FB 6208	Digital output, 8 channels, 20V, 8mA low power
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Digital output, active Zone 1



FB 6210	Digital out, 4 channels, 24.5V, 370 Ohms
FB 6211	Digital out, 4 channels, 24.5V, 320 Ohms
FB 6212	Digital out, 4 channels, 17V, 185 Ohms
FB 6213	Digital out, 4 channels, 23V, 290 Ohms
FB 6214	Digital out, 4 channels, 23V, 355 Ohms
FB 6215	Digital out, 4 channels, 16.2V, 78 Ohms

Analog input (current) Zone 1



FB 3202	Analog input, 1 channel, HART
FB 3205	Analog input, 4 channels, HART

Analog input (Temperature, voltage) Zone 1



FB 5201	Analog input, RTD
FB 5202	Analog input, thermocouples, mV
FB 5204	Analog input, RTD, 4 channels
FB 5205	Analog input, thermocouples, mV, 4 channels
FB 5206	Analog input, 10V

Analog output (current) Zone 1

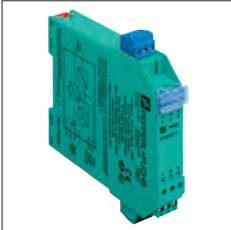


FB 4202	Analog output, HART
FB 4205	Analog output, HART, 4 channels

K-SYSTEM

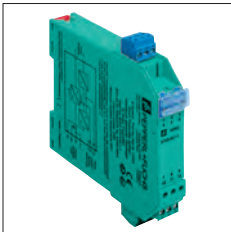
Isolated Barriers

Switch Amplifiers (24 DC Supply Voltage)



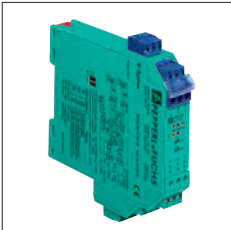
KFD2-SR2-Ex1.W	1-channel; 1 relay output with 1 changeover contact
KFD2-SR2-Ex1.W.LB	1-channel; signal output (changeover contact) and optionally signal output/fault signal
KFD2-SR2-Ex2.W	2-channel; 1 signal output with 1 changeover contact per channel
KFD2-SR2-Ex2.W.SM	1-channel; additional input for rotation direction or start-up override; 2 relay outputs
KFD2-SR2-Ex2.2S	2-channel; 1 relay output per channel with 2 NO contacts each
KFD2-SOT2-Ex1.LB.IO	1-channel; signal output and either signal output or error message; outputs galvanically isolated
KFD2-SOT2-Ex2.LB.IO	2-channel; 1 passive transistor output, depolarized per channel

Switch Amplifiers (115/230 V AC Supply Voltage)



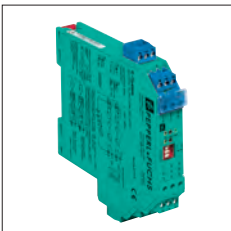
KFA5-SR2-Ex1.W	1-channel; 1 relay output with 1 changeover contact
KFA6-SR2-Ex1.W	1-channel; 1 relay output with 1 changeover contact
KFA5-SR2-Ex1.W.LB	1-channel; signal output (changeover contact) and optionally signal output/fault signal
KFA6-SR2-Ex1.W.LB	1-channel; signal output (changeover contact) and optionally signal output/fault signal
KFA5-SR2-Ex2.W	2-channel; 1 relay output with 1 changeover contact per channel
KFA6-SR2-Ex2.W	2-channel; 1 relay output with 1 changeover contact per channel
KFA5-SR2-Ex2.W.IR	2-channel; 1 signal output with 2 changeover contacts
KFA6-SR2-Ex2.W.IR	2-channel; 1 signal output with 2 changeover contacts

Solenoid Driver



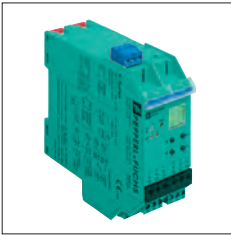
KFD0-SD2-Ex1.1045	1-channel; current limit 45 mA
KFD0-SD2-Ex2.1045	2-channel; current limit 45 mA
KFD0-SD2-Ex1.1065	1-channel; current limit 65 mA
KFD0-SD2-Ex1.1180	1-channel; current limit 80 mA
KFD0-SD2-Ex2.1245	2-channel; current limit 45 mA
KFD0-SD2-Ex1.10100	1-channel; current limit 45 mA

Transmitter Power Supply (24 V DC Supply Voltage)



KFD2-STC4-Ex1	1-channel; HART capable; 1 output 4 ... 20 mA source
KFD2-STC4-Ex1.2O	1-channel; HART capable; 2 outputs 4 ... 20 mA source
KFD2-STC4-Ex2	2-channel; HART capable; 2 outputs 4 ... 20 mA source
KFD2-STV4-Ex1-2	1-channel; HART capable; 1 output 1 ... 5 V source
KFD2-STV4-Ex1-1	1-channel; HART capable; 1 output 2 ... 10 V source
KFD2-STV4-Ex1.2O-1	1-channel; HART capable; 2 outputs 1 ... 5 V source
KFD2-STV4-Ex1.2O-2	1-channel; HART capable; 1 outputs 2 ... 10 V source
KFD2-STV4-Ex2-1	2-channel; HART capable; 2 outputs 1 ... 5 V source
KFD2-STV4-Ex2-2	2-channel; HART capable; 2 outputs 2 ... 10 V source
KFD2-CR4-Ex1	1-channel; 1 output 4 ... 20 mA source
KFD2-CR4-Ex1.2O	1-channel; 2 outputs 4 ... 20 mA source
KFD2-CR4-Ex2	2-channel; 2 outputs 4 ... 20 mA source

Universal Signal Converters



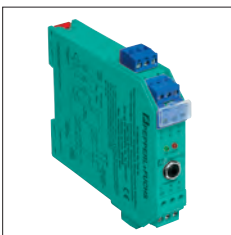
KFU8-UFC-Ex1.D	1-channel; analog output 0/4 mA...20 mA
KFU8-UFT-Ex2.D	2-channel; analog output 0/4 mA...20 mA
KFU8-GUT-Ex1.D	1-channel; analog output 0/4 mA...20 mA
KFU8-CRG2-Ex1.D	1-channel; analog output 0/4 mA...20 mA

Temperature Converter (24 V DC Supply Voltage)



KFD2-UT2-Ex1	1-channel; analog current output 0/4 mA...20 mA
KFD2-UT2-Ex1-1	1-channel; voltage output 0/1...5 V
KFD2-UT2-Ex2	2-channel; 2 analog current outputs 0/4 mA...20 mA
KFD2-UT2-Ex2-1	2-channel; 2 voltage outputs 0/1...5 V

Smart Current Driver (24 V DC Supply Voltage)

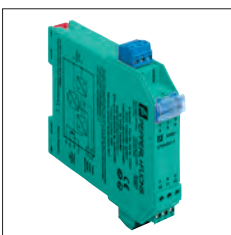


KFD2-SCD2-Ex1.LK	1-channel; HART capable; 4...20 mA current output
KFD2-SCD2-Ex2.LK	2-channel; HART capable; 4...20 mA current output

K-SYSTEM

Signal Conditioner

Transmitter Power Supply (24 V DC Supply Voltage)



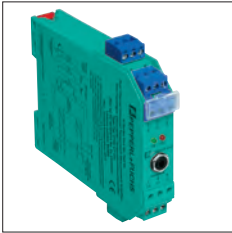
KFD2-STC4-1	1-channel; HART capable; 1 output 4...20 mA source
KFD2-STC4-1.2O	1-channel; HART capable; 2 outputs 4...20 mA source
KFD2-STC4-2	2-channel; HART capable; 2 outputs 4...20 mA source
KFD2-STV4-1-1	1-channel; HART capable; 1 output 1...5 V source
KFD2-STV4-2-1	2-channel; HART capable; 2 outputs 2...10 V source
KFD2-CR4-2	2-channel; HART capable; 2 outputs 4...20 mA source
KFD2-CR4-1.2O	1-channel; HART capable; 2 outputs 4...20 mA source

Temperature Converter (24 V DC Supply Voltage)



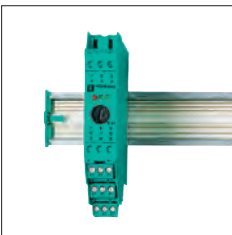
KFD2-UT2-1	1-channel; analog current output 0/4 mA...20 mA
KFD2-UT2-1-1	1-channel; voltage output 0/1...5 V
KFD2-UT2-2	2-channel; 2 analog current outputs 0/4 mA...20 mA
KFD2-UT2-2-1	2-channel; 2 voltage outputs 0/1...5 V

Smart Current Driver (24 V DC Supply Voltage)



KFD2-SCD2-1.LK	1-channel; HART capable; 4 ... 20 mA current output
KFD2-SCD2-2.LK	2-channel; HART capable; 4 ... 20 mA current output

K-System Accessories



UPR-03	Universal power rail
KFD2-EB2	Power feed module, fault signal relay output
KFD2-EB2.R4A.B	Power feed module with bus terminal, fault signal relay output NO

Z-SYSTEM

Zener Barriers



Z***	All Zener barriers of the Z-System
	Positive Polarity Shunt Zener Diode Barriers: Z7**
	Positive Polarity Shunt Zener Diode Barriers: Z8**
	A.C. Shunt Zener Diode Barriers: Z9**

STANDARD INDUCTIVE SENSORS

Cylindrical sensors M8x1



NBB2-8GM30-E0	Operating distance 2 mm, housing M8x1, NPN NO output, flush mountable, 2 m cable
NBB2-8GM30-E0-V1	Operating distance 2mm, housing M8x1, NPN NO output, flush mountable, connector M12
NBB2-8GM30-E2	Operating distance 2 mm, housing M8x1, PNP NO output, flush mountable, 2 m cable
NBB2-8GM30-E2-V1	Operating distance 2mm, housing M8x1, PNP NO output, flush mountable, connector M12
NBN3-8GM30-E0	Operating distance 3mm, housing M8x1, NPN NO output, non-flush mountable, 2m cable
NBN3-8GM30-E0-V1	Operating distance 3mm, housing M8x1, NPN NO output, non-flush mountable, connector M12
NBN3-8GM30-E2	Operating distance 3mm, housing M8x1, PNP NO output, non-flush mountable, 2 m cable
NBN3-8GM30-E2-V1	Operating distance 3mm, housing M8x1, PNP NO output, non-flush mountable, connector M12

Cylindrical sensors M12x1



NBB4-12GM50-E0	Operating distance 4 mm, housing M12x1, NPN NO output, flush mountable, 2 m cable
NBB4-12GM50-E0-V1	Operating distance 4mm, housing M12x1, NPN NO output, flush mountable, connector M12
NBB4-12GM50-E2	Operating distance 4 mm, housing M12x1, PNP NO output, flush mountable, 2 m cable
NBB4-12GM50-E2-V1	Operating distance 4mm, housing M12x1, PNP NO output, flush mountable, connector M12
NBN8-12GM50-E0	Operating distance 8mm, housing M12x1, NPN NO output, non-flush mountable, 2 m cable
NBN8-12GM50-E0-V1	Operating distance 8mm, housing M12x1, NPN NO output, non-flush mountable, connector M12
NBN8-12GM50-E2	Operating distance 8mm, housing M12x1, PNP NO output, non-flush mountable, 2 m cable
NBN8-12GM50-E2-V1	Operating distance 8mm, housing M12x1, PNP NO output, non-flush mountable,connector M12

Cylindrical sensors M18x1



NBB8-18GM50-E0	Operating distance 8 mm, housing M18x1, NPN NO output, flush mountable, 2 m cable
NBB8-18GM50-E0-V1	Operating distance 8mm, housing M18x1, NPN NO output, flush mountable, connector M12
NBB8-18GM50-E2	Operating distance 8 mm, housing M18x1, PNP NO output, flush mountable, 2 m cable
NBB8-18GM50-E2-V1	Operating distance 8mm, housing M18x1, PNP NO output, flush mountable, connector M12
NBN12-18GM50-E0	Operating distance 12mm, housing M18x1, NPN NO output, non-flush mountable, 2 m cable
NBN12-18GM50-E0-V1	Operating distance 12mm, housing M18x1, NPN NO output, non-flush mountable, connector M12
NBN12-18GM50-E2	Operating distance 12 mm, housing M18x1, PNP NO output, non-flush mountable, 2 m cable
NBN12-18GM50-E2-V1	Operating distance 12mm, housing M18x1, PNP NO output, non-flush mountable, connector M12

Cylindrical sensors M30x1,5



NBB15-30GM50-E0	Operating distance 15 mm, housing M30x1, NPN NO output, flush mountable, 2 m cable
NBB15-30GM50-E0-V1	Operating distance 15mm, housing M30x1, NPN NO output, flush mountable, connector M12
NBB15-30GM50-E2	Operating distance 15 mm, housing M30x1, PNP NO output, flush mountable, 2 m cable
NBB15-30GM50-E2-V1	Operating distance 15mm, housing M30x1, PNP NO output, flush mountable, connector M12
NBN25-30GM50-E0	Operating distance 25mm, housing M30x1, NPN NO output, non-flush mountable, 2 m cable
NBN25-30GM50-E0-V1	Operating distance 25mm, housing M30x1, NPN NO output, non-flush mountable, connector M12
NBN25-30GM50-E2	Operating distance 25 mm, housing M30x1, PNP NO output, non-flush mountable, 2 m cable
NBN25-30GM50-E2-V1	Operating distance 25mm, housing M30x1, PNP NO output, non-flush mountable, connector M12