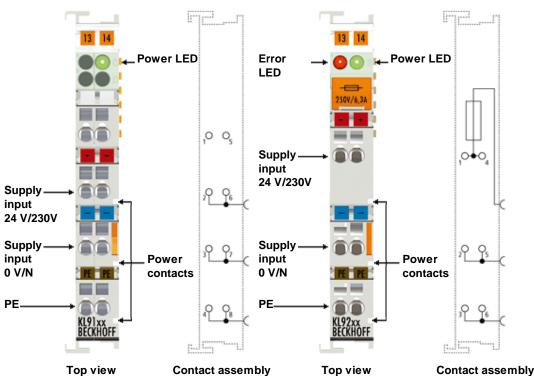
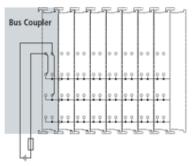
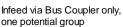
System Terminals KL9xxx

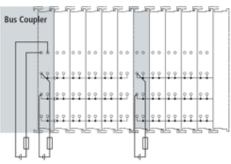


KL91xx, KL92xx | Bus function terminals

The feed terminals can be inserted anywhere between the input and output terminals in order to construct a further potential group, or in order to supply the terminals that follow to the right with additional current. The feed terminals can be used for voltages up to 230 V AC. The terminals with diagnostics report any voltage failure or short-circuit to the controller. The function and electronic data from the diagnostic terminals appear like a 2-channel input terminal with correlating voltage. In other words, they occupy 2 bits in the automation device's process image.







Infeed via Bus Coupler and incoming feeder terminal, three potential groups

Technical data KL91xx | KS91xx, KL92xx

Power contacts max. 10 A
Short-circuit-proof 125 A

Voltage 24 V DC or 230 V AC, depending on type

Protect. class/installation pos. IP 20/variable

Pluggable wiring for all KSxxxx Bus Terminals

Special terminals

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KL9210-0020

with 2 A fuse (slow-blow) and modified label

Bus function terminals

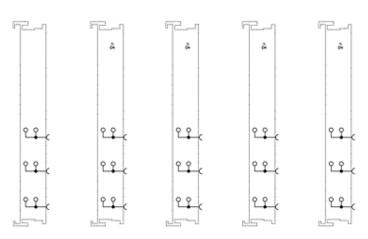
The power feed terminals make it possible to set up various potential groups with any desired voltages (KL9190) or with the standard voltages of 24 V DC or 230 V AC (120 V AC). The power feed terminals are available with or without fine-wire fuse. In order to monitor the supply voltage, the terminals with diagnostics report the status of the power feed terminal to the Bus Coupler through two input bits. It is thus possible for the controller to check the distributed peripheral voltage over the fieldbus. The operating point performance conforms to the input terminals KL1002 (24 V) and KL1702 (230 V).

The KL9180, KL9185 and KL9195 Bus Terminals allow the supply voltage to be accessed a number of times via spring force terminals. These Bus Terminals make it unnecessary to use additional terminal blocks on the terminal strip. The KL9195 Bus Terminal can be used for the connection of screens. The KL9195 connects the spring force contacts directly to the DIN rail, and can optimally ground incoming electromagnetic radiation. The two power contacts are looped through by the KL9195, allowing two wires to be connected to each power contact. The KL9010 bus end terminal is necessary for data exchange between the Bus Coupler and the Bus Terminals. Each assembly must be terminated at the right hand end with a KL9010 bus end terminal. The bus end terminal does not have any other function or connection facility. The KL9080 is used to identify potential groups (e.g. 230 V AC/24 V DC). It is inserted between two potential groups, and indicates the separation through an orange coloured cover.

Meaning of the diagnostic bits:

Bit 0 = 0 no power supply present,

Bit 0 = 1 power supply present, if the bus function terminal does not have a fuse, then bit 1 = 0.



Technical data	KL9190 KS9190	KL9100 KS9100	KL9110 KS9110	KL9150 KS9150	KL9160 KS9160
Nominal voltage	arbitrary	24 V DC	24 V DC	230 V AC (120 V AC)	230 V AC (120 V AC)
Integrated fine-wire fuse	_				
Diagnostics	_	_	yes	_	yes
Power LED	_	green	green	green	green
Defect LED	_				
Reported to K-bus	_	_	yes	_	yes
PE contact	yes				
Shield connection	_				
Renewed infeed	yes				
Connection facility to additional power contact	1				
K-bus, looped through	yes				
Bit width in the process image	0	0	2	0	2

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Connection to DIN rail	-
Electrical isolation	yes
Housing width in mm	12
Side by side mounting on Bus Terminals with power contact	yes
Side by side mounting on Bus Terminals without power contact	yes

Pluggable wiring for all KSxxxx Bus Terminals

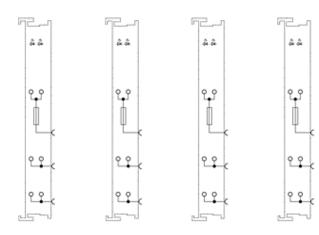
Meaning of the diagnostic bits:

Bit 0 = 0 no power supply present,

Bit 0 = 1 power supply present,

Bit 1 = 0 Fuse o.k.,

Bit 1 = 1 Fuse faulty.



Technical data	KL9200 (KL9290)	KL9210	KL9250	KL9260	
Nominal voltage	24 V DC (arbitrary)	24 V DC	230 V AC	230 V AC	
Integrated fine-wire fuse	6.3 A	6.3 A	6.3 A	6.3 A	
Diagnostics	_	yes	_	yes	
Power LED	green (without)	green	green	green	
Defect LED	red (without)	red	red	red	
Reported to K-bus	_	yes	_	yes	
PE contact	yes	yes	yes	yes	
Shield connection	-	_	-	_	
Renewed infeed	yes	yes	yes	yes	
Connection facility to additional power contact	1	1	1	1	
K-bus, looped through	yes	yes	yes	yes	
Bit width in the process image	0	2	0	2	
Connection to DIN rail	-	_	_	_	
Electrical isolation	yes	yes	yes	yes	
Housing width in mm	12				
Side by side mounting on Bus Terminals with power contact	yes	yes	yes	yes	
Side by side mounting on Bus Terminals without power contact	yes	yes	yes	yes	
Pluggable wiring	for all KSxxxx Bus Terminals				

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Meaning of the diagnostic

Bit 0 = 0 no power supply

Bit 1 = 0 Fuse o.k., Bit 1 = 1 Fuse faulty.

bits:

present,

2 Bit 0 = 1 power supply present,

Technical data	KL9180 (KS9180)	KL9185 (KS9185)	KL9195 (KS9195)	KL9010 KL9080	
Nominal voltage	arbitrary up to 230 V AC	arbitrary up to 230 V AC	arbitrary up to 230 V AC	end/separa. terminal	
Integrated fine-wire fuse	-	-	-	_	
Diagnostics	-	-	-	_	
Power LED	-	-	-	_	
Defect LED	_	_	_	_	
Reported to K-bus	_	_	_	_	
PE contact	yes	_	_	_	
Shield connection	_	_	2	_	
Renewed infeed	_	_	_	_	
Connection facility to additional power contact	2	4	1	-	
K-bus, looped through	yes	yes	yes	-/yes	
Bit width in the process image	0	0	0	0	
Connection to DIN rail	_	_	shield terminal	_	
Electrical isolation	_	_	_	_	
Housing width in mm	12				
Side by side mounting on Bus Terminals with power contact	yes	only 2 power contacts	only 2 power contacts	yes	
Side by side mounting on Bus Terminals without power contact	-	_	_	yes	
Pluggable wiring	for all KSxxxx Bus Terminals				

Product announcement

KL9190, KS9190, KL9100, KS9100, KL9110, KS9110, KL9150, KS9150, KL9160, KS9160, KL9200, KL9290, KL9210, KL9250, KL9260, KL9180, KS9180, KL9185, KS9185, KL9195, KL9010,

KL9080: available

KS9195: estimated market release 1st quarter 2011

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