



## KL9050 | Terminal bus extension, coupler terminal

The KL9050 coupler terminal replaces the Bus Coupler on a Bus Terminal block. The KL9050 is the counterpart to the KL9020. The S(F)TP cable (shielded twisted pair) is plugged into the upper socket, providing the logical connection to the Bus Coupler. The extension is fully transparent for the Bus Coupler. All Bus Terminal system functions remain unchanged. The second RJ45 socket allows the system to be extended further. A new KL9050 can be connected to the first coupler terminal. The whole system can thereby be extended by 31 stations. The supply voltage for the field level and the internal electronics can be input separately. Both levels are thereby electrically isolated from one another. In the KL9050 a 400 mA K-bus power supply unit supplies the added Bus Terminals. The internal electronics and the field level can be supplied together from a single voltage source. Three diagnostic LEDs give information about the supply voltage for each Bus Terminal block, internal and field level. The KL9050 can be used as the last coupler terminal in the system or as a bridge between two Bus Terminal blocks. You can switch between these two functions with a selector switch. The switch must be correctly positioned for the system to operate.

Technical data	KL9050
Number of Bus Terminals	64
Current load	≤ 10 A
Power LED	green
Defect LED	–
Type/number of peripheral signals	Bus Coupler dependency
Distance between stations	max. 5 m between KL9050 and KL9050
Bus interface	2 x RJ45 socket (input + output)
Power supply	24 V DC (-15 %/+20 %)
Input current	70 mA + (total K-bus current)/4, 200 mA max.
Starting current	2.5 x continuous current
Current consumption K-bus	typ. 70 mA + (total K-bus current)/4, max. 200 mA
Current supply K-bus	up to 400 mA
Power contacts	24 V DC max./10 A max.
Nominal voltage	24 V DC (-15 %/+20 %)
Electrical isolation	500 V (power contact/supply voltage/fieldbus)
PE contact	yes
Shield connection	–
Electrical connection to DIN rail	–
Special features	coupler terminal for K-bus extension (max. 64 Bus Terminals)
Weight	approx. 75 g
Operating/storage temperature	0...+55 °C/-25...+85 °C
Relative humidity	95 %, no condensation
Vibration/shock resistance	conforms to EN 60068-2-6/EN 60068-2-27
EMC immunity/emission	conforms to EN 61000-6-2/EN 61000-6-4
Protect. class/installation pos.	IP 20/variable
Approvals	CE, UL, Ex, GL