

## Ordering instructions for special couplers and terminals

All Bus Couplers and Bus Terminals are supplied with a standard configuration. In addition, specific coupler and terminal types with modified software or hardware are available. These variants have an order number with additional four figures. Therefore, if you do require a configuration other than standard, quote this extended number when you place your order. The following table provides a summary of the Bus Couplers and Bus Terminals that are available.

Ordering information	
<b>Bus Coupler</b>	
BK8100-0060	watchdog special setting 60 s
BK8100-1001	watchdog special setting 10 s
<b>BK9055-1000</b>	EtherNet/IP "Compact" Bus Coupler for up to 64 Bus Terminals (255 with K-bus extension), default IP address: 192.168.1.xxx
<b>BK9105-1000</b>	EtherNet/IP Bus Coupler for up to 64 Bus Terminals (255 with K-bus extension), default IP address: 192.168.1.xxx
<b>Digital input</b>	
KL1052-0010	96 V DC positive and ground switching, not in accordance with the EN 61131-2 specifications: I high = 3 mA, I low = 0.5 mA
KL1232-0001	positive switching, positive edge-triggered input, 10 ms pulse extension, input filter 0.2 ms
KL1232-0002	positive switching, positive edge-triggered input, 20 ms pulse extension, input filter 0.2 ms
KL1232-0010	positive switching, positive edge-triggered input, 100 ms pulse extension, input filter 3.0 ms
KL1232-0100	positive switching, negative edge-triggered input, 100 ms pulse extension, input filter 0.2 ms
KL1232-0110	positive switching, negative edge-triggered input, 100 ms pulse extension, input filter 3.0 ms
KL1232-1000	ground switching, positive edge-triggered input, 100 ms pulse extension, input filter 0.2 ms
KL1232-1001	5 V, ground switching, negative edge-triggered input, 20 ms pulse extension, input filter 0.2 ms
KL1232-1010	ground switching, positive edge-triggered input, 100 ms pulse extension, input filter 3.0 ms
KL1232-1100	ground switching, negative edge-triggered input, 100 ms pulse extension, input filter 0.2 ms
KL1232-1110	ground switching, negative edge-triggered input, 100 ms pulse extension, input filter 3.0 ms
KL1232-2000	positive switching, positive edge-triggered input, 200 ms pulse extension, input filter 0.2 ms
KL1501-0010	gate-counter with auto-reset and setting A0
KL1501-0011	up/down counter with 5 V inputs, 24 V DC outputs
KL1702-0010	230 V AC input circuit with type 2 characteristics
KL1712-0010	24 V AC/DC input circuit
<b>Digital output</b>	
KL2502-3020	5 V output, 30 kHz limit frequency
KL2521-0010	with additional outputs (230 V AC/DC, 100 mA) instead of the additional inputs of the default variant
<b>KL2521-0024</b>	for 24 V signal level
<b>KL2541-0006</b>	stepper motor terminal 50 V DC, 5 A, 5 V DC encoder operating voltage
<b>KL2702-0002</b>	2-channel solid state load relay up to 230 V AC/DC, 2 A, mutually locked (no UL, GL or Ex approval)
<b>KL2702-0020</b>	2-channel solid state load relay up to 230 V AC/DC, 1.5 A (no UL, GL or Ex approval)
KL2722-0010	without reciprocal locking of the channels, total current 1 A
KL2732-0010	without reciprocal locking of the channels, total current 1 A
KL2751-0011	dimmer terminal without power contacts
KL2761-0011	1-channel universal dimmer terminal, 230 V AC, 600 VA (W), 50 Hz, without power contacts
KL2791-0011	1-channel AC motor speed controller, 230 V AC, 200 VA, max. 0.9 A, without power contacts
KL2791-1200	1-channel AC motor speed controller, 120 V AC, 100 VA
<b>Analog input</b>	
KL3002-0010	Siemens S5 format

KL3002-0011	fast $\mu$ P, scan time approx. 0.5 ms
KL3002-0050	Siemens S7 format
KL3012-0010	Siemens S5 format
KL3012-0011	altered range: 0...21.5 mA, maximum value corresponds to 21.5 mA instead of 20 mA
KL3012-0012	fast $\mu$ P, scan time approx. 0.5 ms
KL3012-0050	Siemens S7 format
KL3022-0010	Siemens S5 format
KL3022-0011	fast $\mu$ P, scan time approx. 0.5 ms
KL3022-0050	Siemens S7 format
KL3042-0010	Siemens S5 format
KL3042-0011	fast $\mu$ P, scan time approx. 0.5 ms
KL3042-0012	altered range: 0...21.5 mA, maximum value corresponds to 21.5 mA instead of 20 mA
KL3042-0050	Siemens S7 format
KL3044-0050	Siemens S7 format
KL3051-0050	Siemens S7 format
KL3052-0010	Siemens S5 format
KL3052-0011	fast $\mu$ P, scan time approx. 0.5 ms
KL3052-0012	changed diagnostic level (< 3.5 mA or > 21.5 mA)
KL3052-0050	Siemens S7 format
KL3054-0050	Siemens S7 format
KL3062-0010	Siemens S5 format
KL3062-0011	voltage level 0...20 V
KL3062-0012	fast $\mu$ P, scan time approx. 0.5 ms
KL3062-0013	voltage level 0...30 V
KL3062-0014	voltage level 0...50 V
KL3062-0050	Siemens S7 format
KL3064-0010	Siemens S5 format
KL3064-0011	voltage level 0...20 V
KL3064-0050	Siemens S7 format
KL3102-0050	Siemens S7 format
KL3112-0050	Siemens S7 format
KL3122-0050	Siemens S7 format
KL3142-0050	Siemens S7 format
KL3172-0500	2-channel analog input terminal, 0...500 mV
KL3202-0010	PT200
KL3202-0011	PT200 in Siemens S5 format
KL3202-0012	PT500
KL3202-0013	PT500 in Siemens S5 format
KL3202-0014	PT1000
KL3202-0015	PT1000 in Siemens S5 format
KL3202-0016	Ni100
KL3202-0017	Ni100 in Siemens S5 format
KL3202-0020	resistance measurement 0...1.2 k $\Omega$
KL3202-0021	PT100 in Siemens S5 format
KL3202-0023	Ni120
KL3202-0024	Ni120 in Siemens S5 format
KL3202-0025	Ni1000
KL3202-0026	Ni1000 in Siemens S5 format
KL3202-0027	resistance measurement 10...10 k $\Omega$
KL3202-0028	Resolution increased to 0.01 $^{\circ}$ C; the measurement range is reduced to -40 $^{\circ}$ C to +128 $^{\circ}$ C. The absolute accuracy is 0.3 $^{\circ}$ C, differential error is 0.1 $^{\circ}$ C.
KL3202-0029	Ni1000 per Landis&Staefa characteristic curve (Siemens, 100 $^{\circ}$ corresponds to 1500 $\Omega$ )
KL3204-0014	PT1000

KL3204-0021	PT100 in Siemens S5 format
KL3204-0025	Ni1000, 4-channel
KL3204-0029	Ni1000 per Landis&Staefa characteristic curve (Siemens, 100° corresponds to 1500 Ω)
KL3312-0010	type J
KL3312-0011	type J in Siemens S5 format
KL3312-0012	type L
KL3312-0013	type L in Siemens S5 format
KL3312-0014	type B
KL3312-0015	type B in Siemens S5 format
KL3312-0016	type E
KL3312-0017	type E in Siemens S5 format
KL3312-0018	type N
KL3312-0019	type N in Siemens S5 format
KL3312-0020	type R
KL3312-0021	type R in Siemens S5 format
KL3312-0022	type S
KL3312-0023	type S in Siemens S5 format
KL3312-0024	type T
KL3312-0025	type T in Siemens S5 format
KL3312-0026	type U
KL3312-0027	type U in Siemens S5 format
KL3312-0028	0...120 mV measurement
KL3312-0029	type K in Siemens S5 format
KL3312-0040	expanded temperature range for type S and L type S: -50...+1700 °C (as supplied type L: -100...+900 °C)
KL3312-0110	type J, Fahrenheit scaling
KL3312-2000	setting of reference junction temperature via process image, unit 1/256 °C in a 16 bit word
KL3312-2100	external reference point temperature specification via process image is possible, the unit is 1/256 °C in 16-bit format, fast conversion time 65 ms
KL3351-0001	1-channel resistor bridge terminal (strain gauge), with faster measurement time approx. 10 ms
KL3403-0010	3-phase power measurement terminal, current path designed for 5 A transducer (1 % measuring accuracy I), operating/storage temperature: -25...+60 °C/-40...+85 °C
KL3403-0020	3-phase power measurement terminal, current path designed for 20 mA, optimised for electronic current transformer, operating/storage temperature: 0...+55 °C/-25...+85 °C
KL3403-0022	3-phase power measurement terminal, current path and voltage input designed for 20 mA, operating/storage temperature: 0...+55 °C/-25...+85 °C
KL3403-0333	3-phase power measurement terminal, 500 V AC, 333 mV AC, operating/storage temperature: 0...+55 °C/-25...+85 °C
KL3454-0050	Siemens S7 format
KM3701-0340	differential pressure up to 340 hPa
<b>Analog output</b>	
KL4002-0010	Siemens S5 format
KL4002-0011	fast µP, scan time approx. 0.15 ms
KL4002-0050	Siemens S7 format
KL4004-0050	Siemens S7 format
KL4012-0010	Siemens S5 format
KL4012-0011	altered range: 0...21.5 mA, maximum value corresponds to 21.5 mA instead of 20 mA
KL4012-0050	Siemens S7 format
KL4021-0050	Siemens S7 format
KL4022-0010	Siemens S5 format
KL4022-0050	Siemens S7 format
KL4032-0010	Siemens S5 format
KL4032-0011	fast µP, scan time approx. 0.15 ms
KL4032-0050	Siemens S7 format

KL4034-0010	Siemens S5 format
KL4112-0010	Siemens S5 format
KL4112-0050	Siemens S7 format
KL4132-0010	Siemens S5 format
KL4132-0050	Siemens S7 format
<b>KL4428-0050</b>	Special terminal: Siemens S7 format
<b>Position measurement</b>	
KL5111-0010	A, B, C signals: 5 V inputs
KL5111-0011	special function: latch input sets counter to zero
KL5111-0012	latches on both edges, A, B, C inputs 24 V
KL5111-0013	latches on both edges, A, B, C inputs 5 V
KL5111-0015	frequency measurement over a selectable time window; 24 V inputs
KL5111-0016	frequency measurement over a selectable time window; 5 V inputs
KL5111-0020	12 V input circuit
KL5151-0021	incremental encoder 1 x 32 bit A, B, capture input and 1 driver output 24 V, 0.5 A
KL5151-0050	incremental encoder 2 x 32 bit A, B-track
<b>Communication</b>	
KL6001-0020	standard format 5 bytes of user data
KL6011-0020	standard format 5 bytes of user data
KL6021-0020	standard format 5 bytes of user data (rest default)
KL6021-0021	standard format 5 bytes of user data (7 bits, even, 1 stop bit, 9600 baud)
KL6201-0010	preset to 22 bytes K-bus interface, supports up to 31 AS-Interface slaves (2 K-bus cycles)
KL6201-0011	preset to 38 bytes K-bus interface, supports up to 62 AS-Interface slaves (4 K-bus cycles)
KL6211-0011	preset to 38 bytes K-bus interface, supports up to 62 AS-Interface slaves (4 K-bus cycles)
KL6904-0001	TwinSAFE Logic Bus Terminal, pre-configured ex factory to 15 TwinSAFE connections
<b>System terminals</b>	
KL9210-0020	with 2 A fuse (slow-blow) and modified label
KL9540-0010	surge filter field supply for analog terminals

