K-bus diagnostics
AS-Interface diagnostics/mode
Set

AS-Interface power
AS-Interface fault diagnostics
Mode

Mode — Mode

AS-Interface+
Power contact ASi+

AS-Interface+

AS-Interface-
Power contact ASi-

AS-Interface-

Set — Set

25 g

Top view — Contact assembly

KL6211 | AS-Interface master terminal

The AS-Interface master terminal is an extended master according to profile M3 and enables the direct connection of AS-Interface slaves. The AS-Interface-compliant interface supports digital and analog slaves, versions 2.0 and 2.1, safety slaves and slaves with Combined Transaction Type 1 (profile S-7.3 and 7.4). Process data exchange, parameterisation and the diagnosis are fieldbus-independent. Together with the different Bus Couplers, the KL6211 represents a universal AS-Interface/fieldbus gateway. Together with the BK3120, the PROFIBUS DP V1 services can be used for communication with the KL6211. Unlike the KL6201 AS-Interface master terminal, the KL6211 features power contacts. This enables direct connection to the AS-Interface supply via the KL9520 AS-Interface potential feed terminal or the KL9528 power supply terminal.

Technical data	KL6211	KS6211
Technology	AS-Interface
Number of channels	1
AS-Interface channels	1
Number of slaves	31 for V 2.0, 62 for V 2.1
Specification version	AS-Interface V 2.0, V 2.1
Slave types	digital and analog
Diagnostics	power failure, slave failure, parameterisation fault
AS-Interface address assignment	via configuration or automatic
Cycle time	max. 5 ms (31 devices)
Connection	2 lines via spring force technology
Current consumption K-bus	typ. 55 mA (K-bus), approx. 60 mA (AS-Interface)
Current consumption power contacts	typ. 60 mA + load
Electrical isolation	500 V (AS-Interface/K-bus)
Power contacts	yes
Bit width in the process image	selectable: 12 bytes, 22 bytes or 38 bytes, of which 6 bytes parameter interface
Configuration	via fieldbus parameter interface, DP-V1 or Bus Coupler through KS2000
Weight	approx. 55 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
Pluggable wiring	for all KSxxxx Bus Terminals
Approvals	CE, UL
AS-Interface certificate	yes, ZU-No. 125801

Special terminals	
KL6211-0011	preset to 38 bytes K-bus interface, supports up to 62 AS-Interface slaves (4 K-bus cycles)

Accessories	
KL9520	AS-Interface potential feed terminal with filter, 35 V DC
KL9528	AS-Interface power supply terminal 24 V DC, output 30 V DC, 1.25 A

Related products	
KL6201	Bus Terminal, AS-Interface master terminal

System	
subsystem	For further subsystem products please see the system overview.

| **i** **Product announcement** | **KL6211: available**
KS6211: estimated market release on request |