ABB STOTZ-KONTAKT GmbH
ABB i-bus® KNX
Line Coupler LK/S4.2

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ABB i-bus® KNX
Line Coupler LK/S4.2

- New Line Coupler
- Supports new ETS4 functions
- Filter table supports complete group address range from 0...31
- Blocking of broadcast telegrams and physically addressed telegrams
- Application programs for couple and repeat combined in one application
Different application programs are available with the LK/S 4.2 for ETS 3 and ETS 4 which differ in functionality:

- **Application program ETS3**
  - Couple/1.1
  - Repeat/1.1

- **Application program ETS4**
  - Couple Repeat/2.0

- **All applications are upwards compatible, i.e.**:
  - The old applications of LK/S 4.1 can be loaded in the LK/S 4.2 (ETS 3). This is particularly useful if in an existing project an LK/S 4.1 has to be replaced by an LK/S 4.2.
  - The applications *Couple/1.1* or *Repeat/1.1* can be loaded into the LK/S 4.2 via the ETS 3 or the ETS 4.
  - The new application *Couple Repeat/2.0* with extended functional range is only available for the ETS 4.
### ABB i-bus® KNX
#### Line Coupler LK/S4.2

<table>
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<th>Line/Area Coupler properties</th>
<th>ETS 3</th>
<th>ETS 4</th>
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<td>Filter group telegrams main group 0...13</td>
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<td>Filter group telegrams main group 14...31</td>
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<td>Telegram confirmation</td>
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- ■ = property applies

<table>
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<tr>
<th>Repeater properties</th>
<th>ETS 3</th>
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<tr>
<td>Function Repeater</td>
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<td>In case of errors repeat telegrams</td>
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- ■ = property applies
Topography Line Coupler

- **Physical address B.0.0**
  (B = 1...15, Area Coupler)

- **Physical address B.L.0**
  (B,L = 1...15, Line Coupler)

- Each line incl. main line requires its own power supply (electrically isolated).
Topology Repeater

- The repeater does not have filter tables.
- Behind a coupler, up to three repeaters can be connected, so up to 256 devices per line are possible (incl. Line Coupler)
  → Note: Consider routing counter
- The topology is not defined with the repeater:
  - Below the LK/S with physical address 1.1.64 the device 1.1.129 could be connected.
  - The repeaters in line 1.1 can be programmed with each address from 1.1.1 to 1.1.255.
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