With the AS-i Power24V innovation, Siemens now offers an automation expansions which is particularly suitable for compact machines (e.g. machine tools) and applications inside the control cabinet. The utilization of already employed 24 V power supply units in connection with a data decoupling unit facilitates the cost-favorable realization of AS-i networks with expansions of up to 50 m.

With the help of the data decoupling unit, data and energy can be realized on a single line in the AS-i network. When using the double data decoupling unit, even multiple AS-i networks can be operated with only one power supply unit, which results in an additional cost advantage.

Advantages at a glance

• Cost and space savings thanks to elimination of the 30 V AS-i power supply unit:
  – Cost reductions of up to 50 % with multiple AS-i networks
  – Cost reductions of up to 30 % with single AS-i networks

• Efficient utilization of one power supply unit for several AS-i networks

• Increased degree of standardization in small systems

• Reduced getting-started costs for AS-Interface

• Continued utilization of present AS-i network advantages, e.g.
  – High data quality
  – Extended diagnostics and maintenance information
  – Integrated ASIsafe safety technology
  – Unlimited number of connectable slaves

Less is More: AS-i Power24V
Savings of up to 50% with small machines and systems
AS-i Power24V: Top Performance for Small Applications

Technical key data on AS-i Power24V networks

- International standard in accordance with IEC 62026-2
- Up to 62 slaves or 31 safe slaves
- Maximum network expansion up to 50 m
- Any topology

- Required components:
  - 24 V power supply unit with low residual ripple, e.g., SITOP
  - AS-i data decoupling unit
  - Power24V-capable masters and slaves
  - Operating voltage range of connected sensors: 10...30 V

Data decoupling units S22.5

<table>
<thead>
<tr>
<th>Single data decoupling units, 1 x 4 A</th>
<th>Double data decoupling units, 2 x 4 A</th>
</tr>
</thead>
<tbody>
<tr>
<td>3RK1 901-1DE12-1AA0</td>
<td>3RK1 901-1DE22-1AA0</td>
</tr>
<tr>
<td>3RK1 901-1DG12-1AA0</td>
<td>3RK1 901-1DG22-1AA0</td>
</tr>
</tbody>
</table>

Screw-type connection
Spring-loaded connection

The information provided in this brochure contains merely general descriptions or characteristics of performance which in actual case of use do not always apply as described or which may change as a result of further development of the products. An obligation to provide the respective characteristics shall only exist if expressly agreed in the terms of contract.

All product designations may be trademarks or product names of Siemens AG or supplier companies whose use by third parties for their own purposes could violate the rights of the owners.