Flexible room automation with e.control®

Agenda

- Why room automation?
- Installation concepts
  - Conventional room-oriented installation
  - Flexible axis-oriented installation
- Automating an office building (Example)
  - with a traditional room-oriented concept
  - with the flexible axis-oriented e.control® system
- Advantages of spega‘s e.control® system

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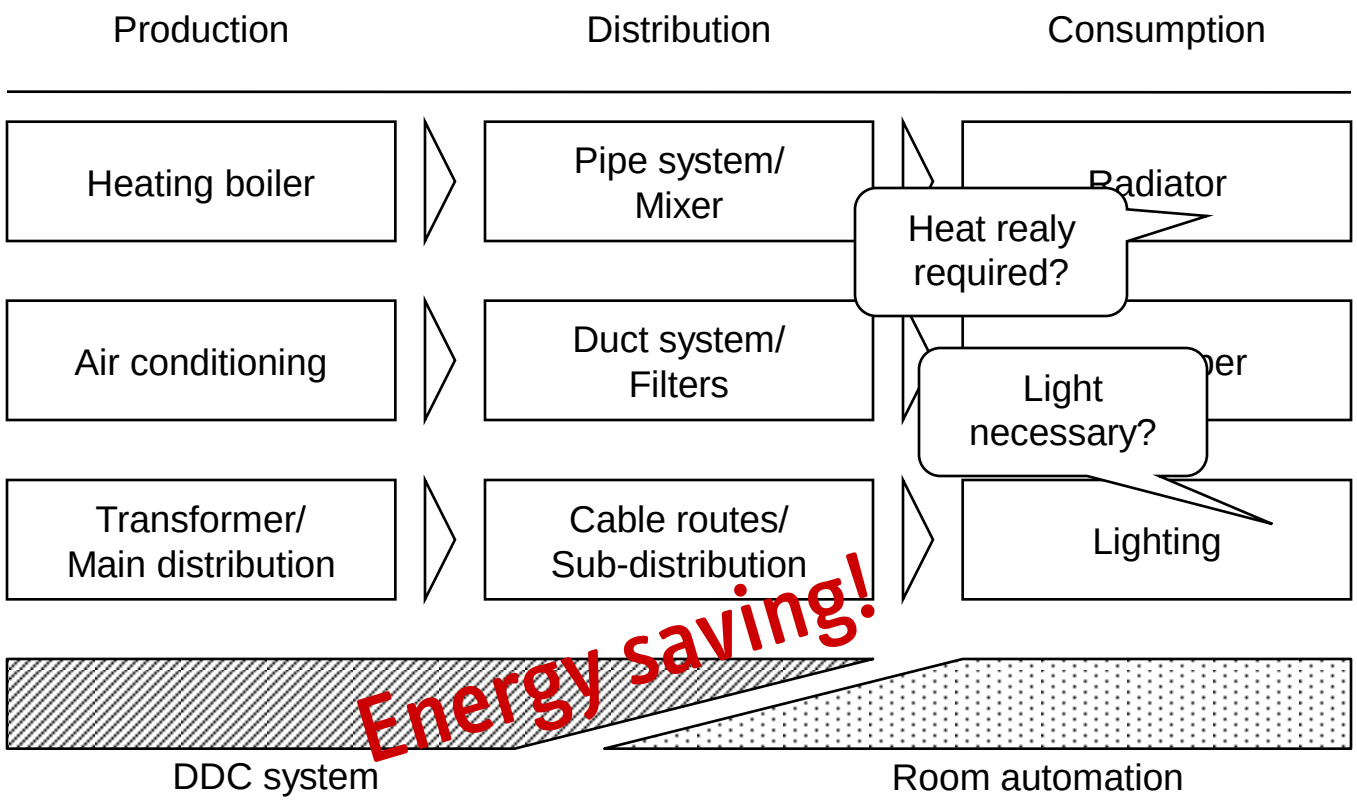
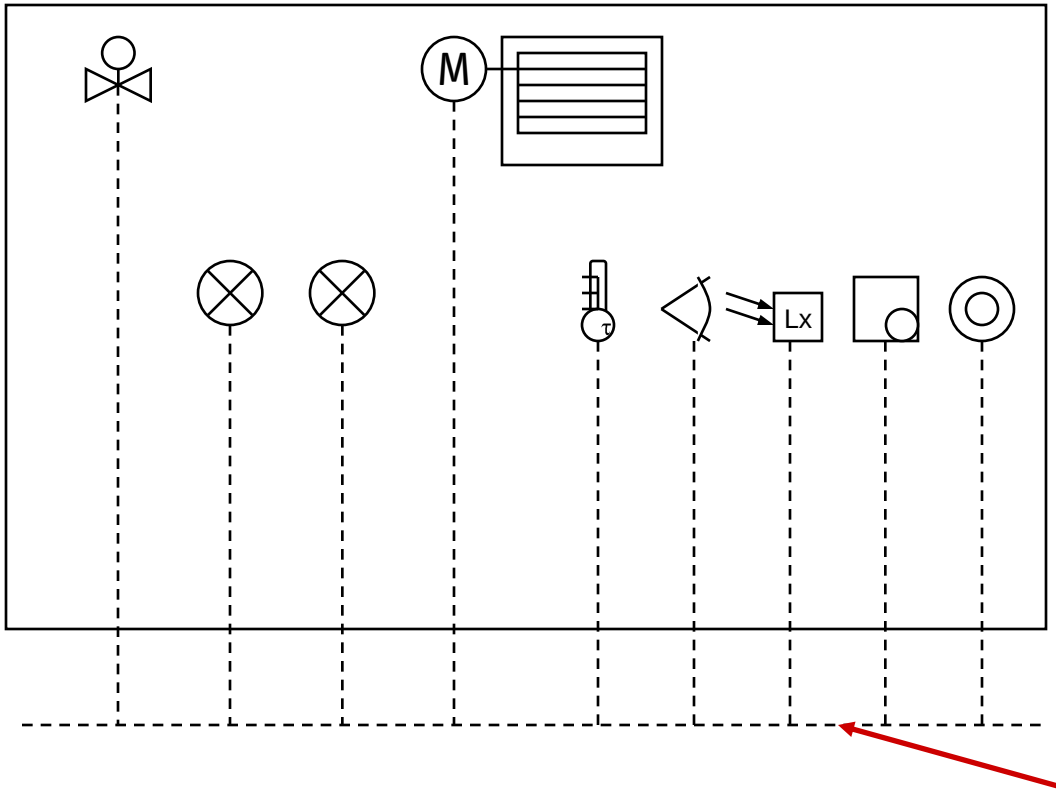
Why room automation?



Energy saving and enhancement of convenience...

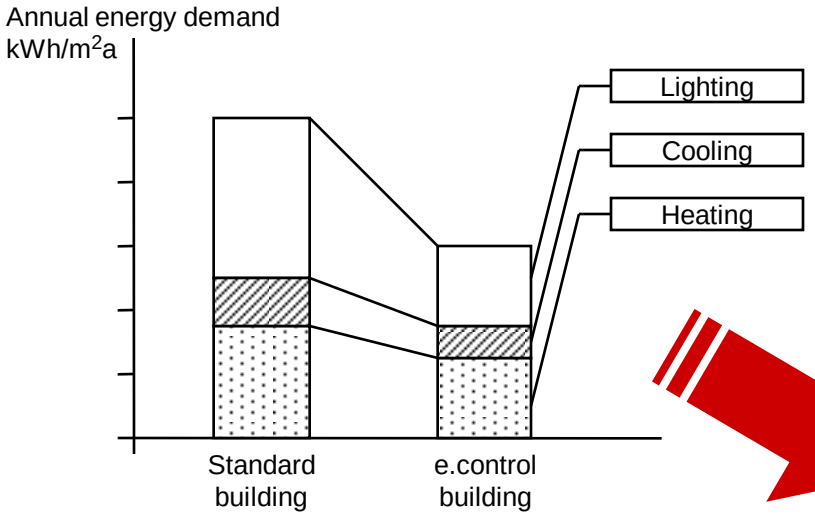


...through integration of

- heating/cooling
- lighting
- sunblind control
- sensors
- operation panels ...

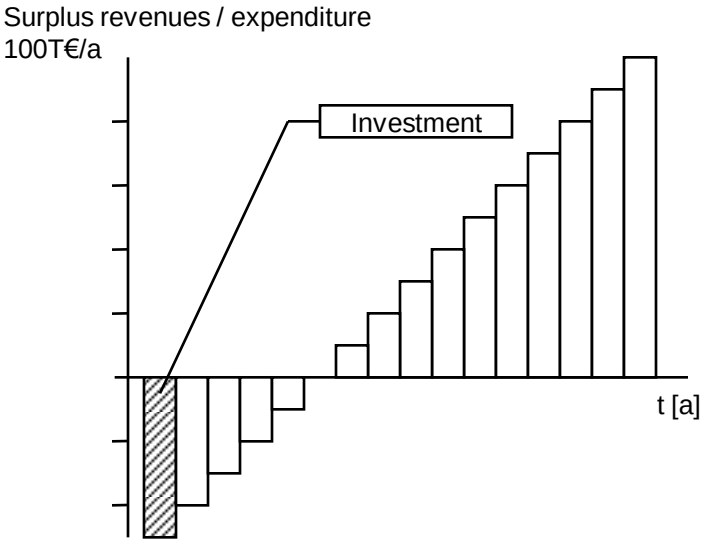
...is most efficient with the powerful and open LON technology!

Room automation saves energy and costs!



Lighting: >50%
Heating: >30%
Cooling: >20%

Savings per year: > 5 EUR/(m²a)



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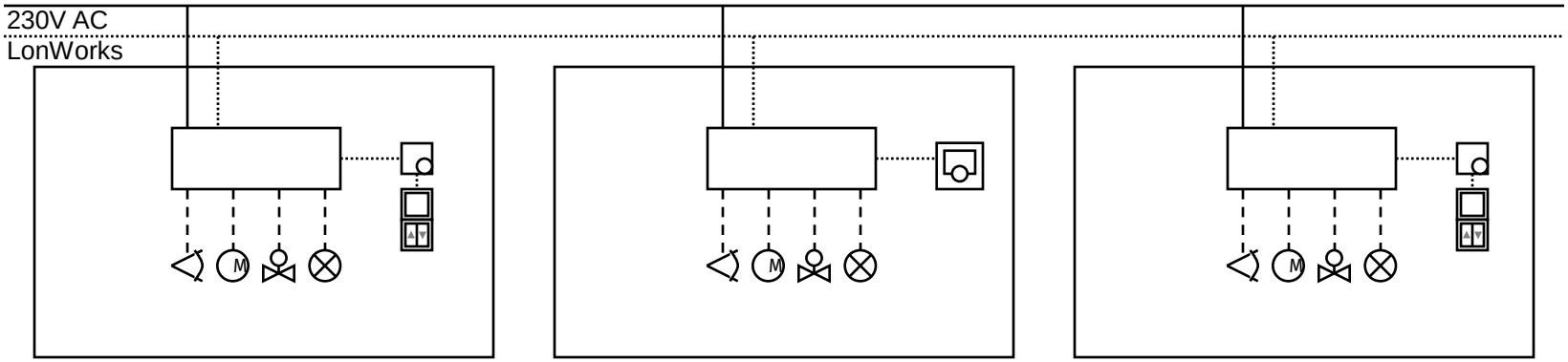
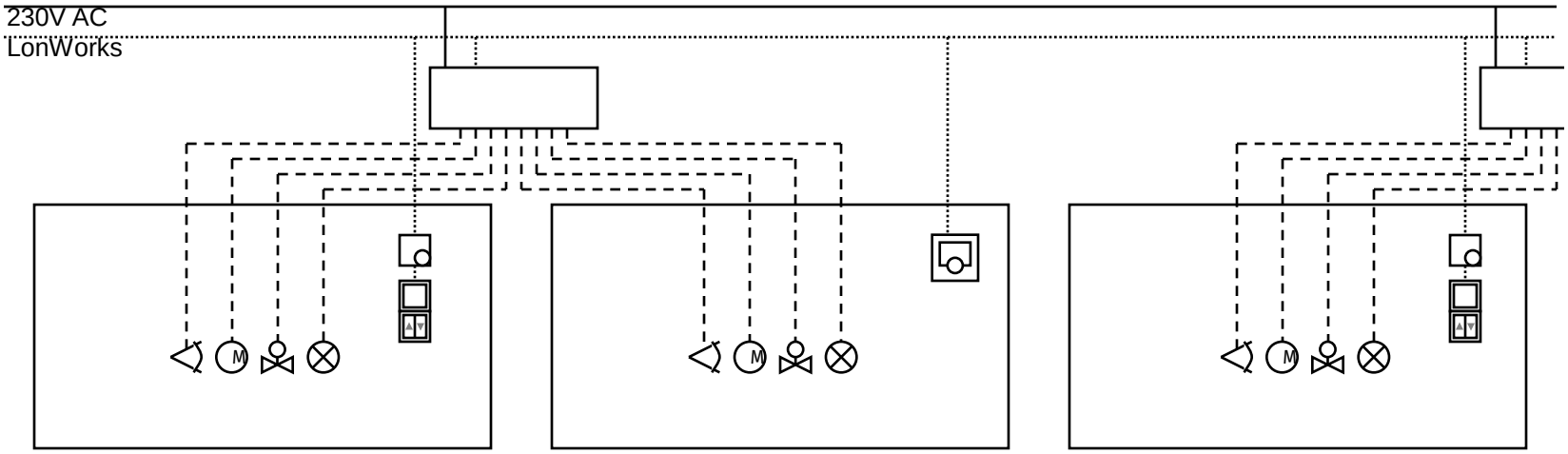
The missing flexibilty in conventional systems ...



Conventional room-oriented installation:

+ low installation costs and fire loads
+ high operational availability
+ less space required for technical rooms
- missing flexibility on change of utilisation

...can be solved with an advanced axis-oriented system!



Flexible axis-oriened installation:

+ low installation costs and fire loads
+ high operational availability
+ less space required for technical rooms
+ full flexibility on change of utilisation

e.control®

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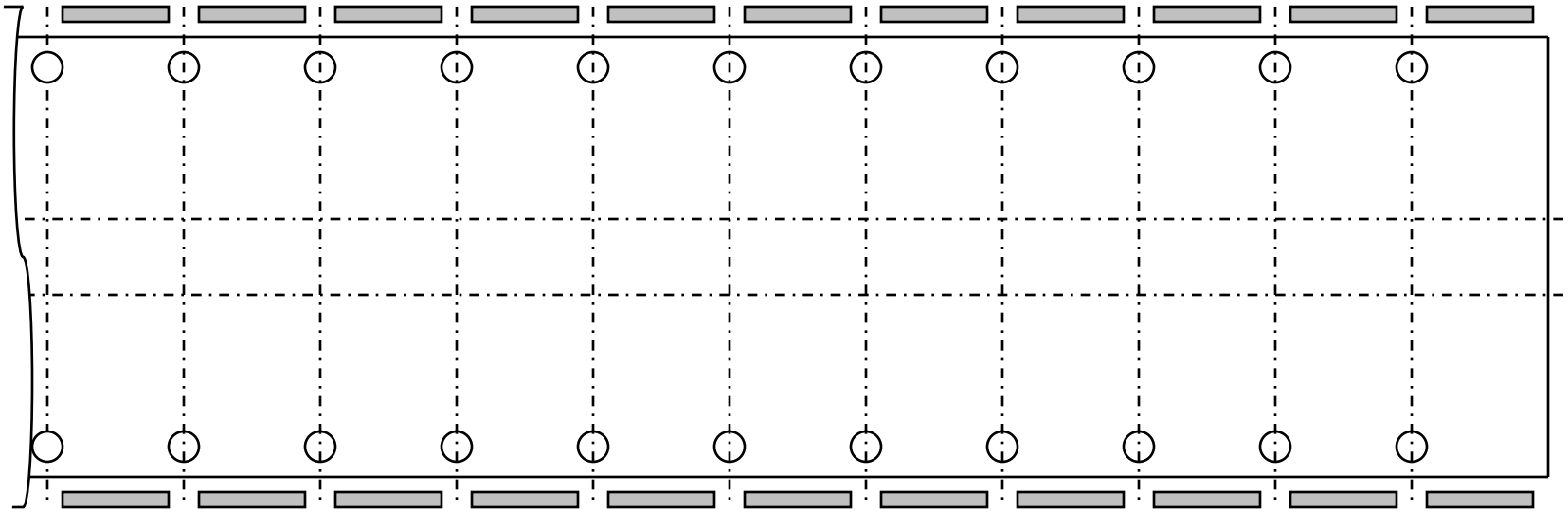
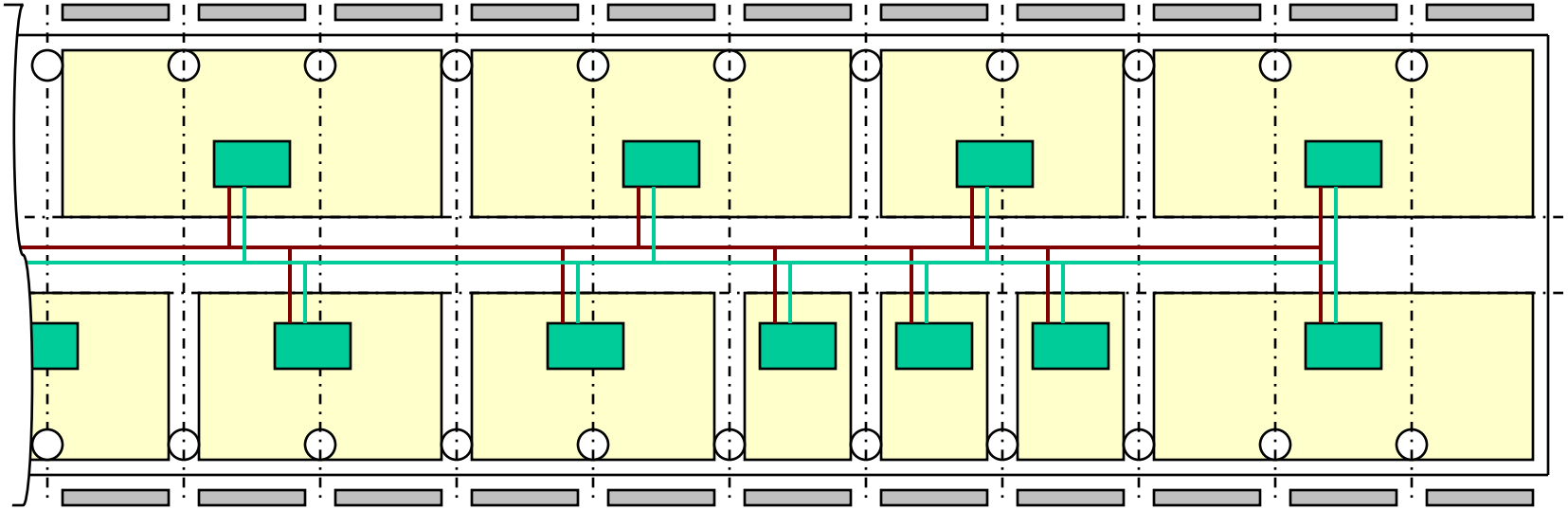
Example of an office building



Today‘s demands for an office building:

+ variable utilisation of office space
+ optimised energy saving

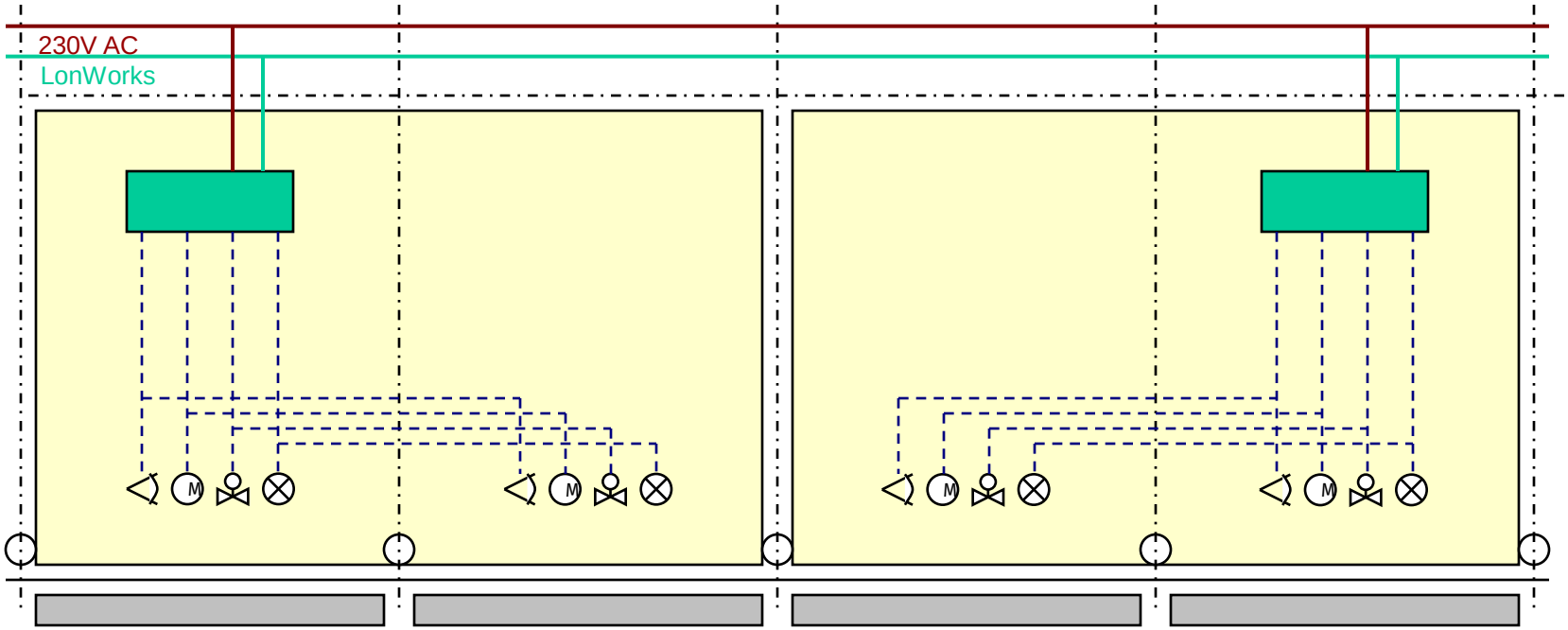
Limits with a conventional room automation concept



Problems are:

1. Installation concept depends on room partitioning
2. Different automation components for different rooms needed

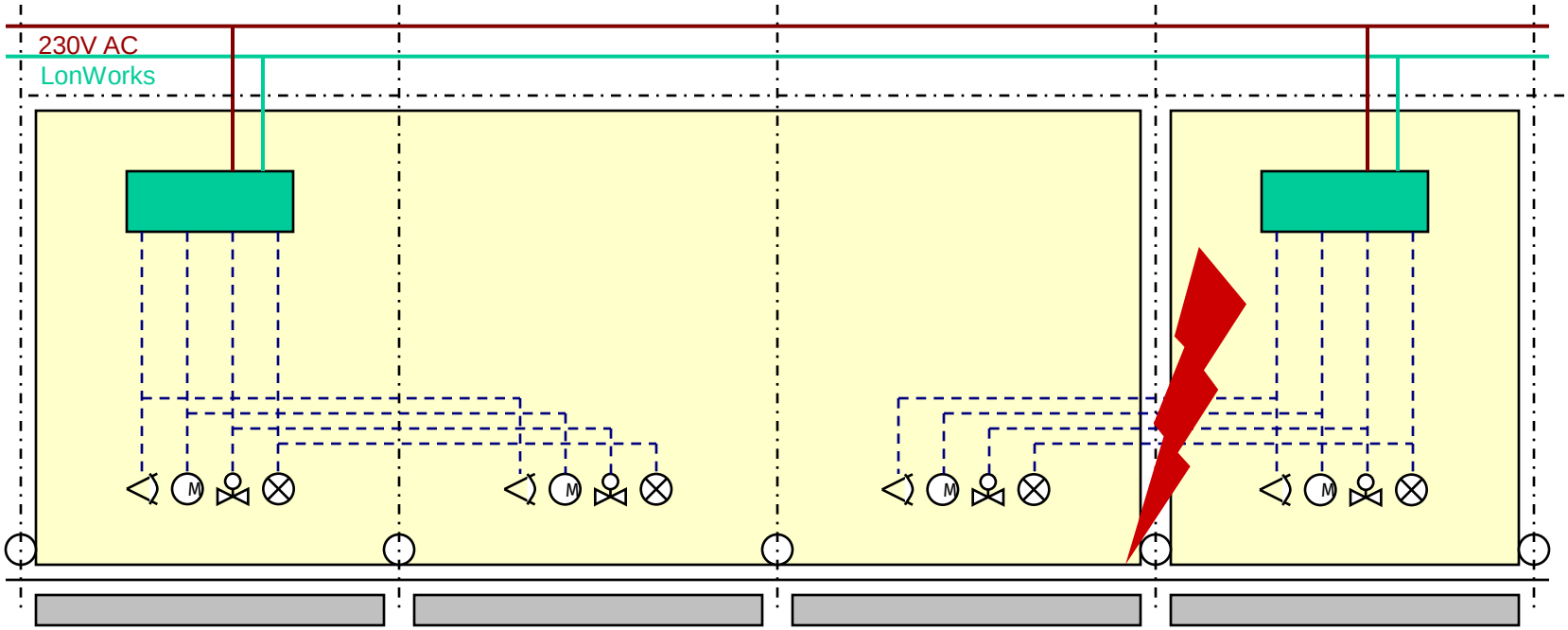
Limits with a conventional room automation concept



Problems are:

3. Room oriented wiring inhibits the change in utilisation...

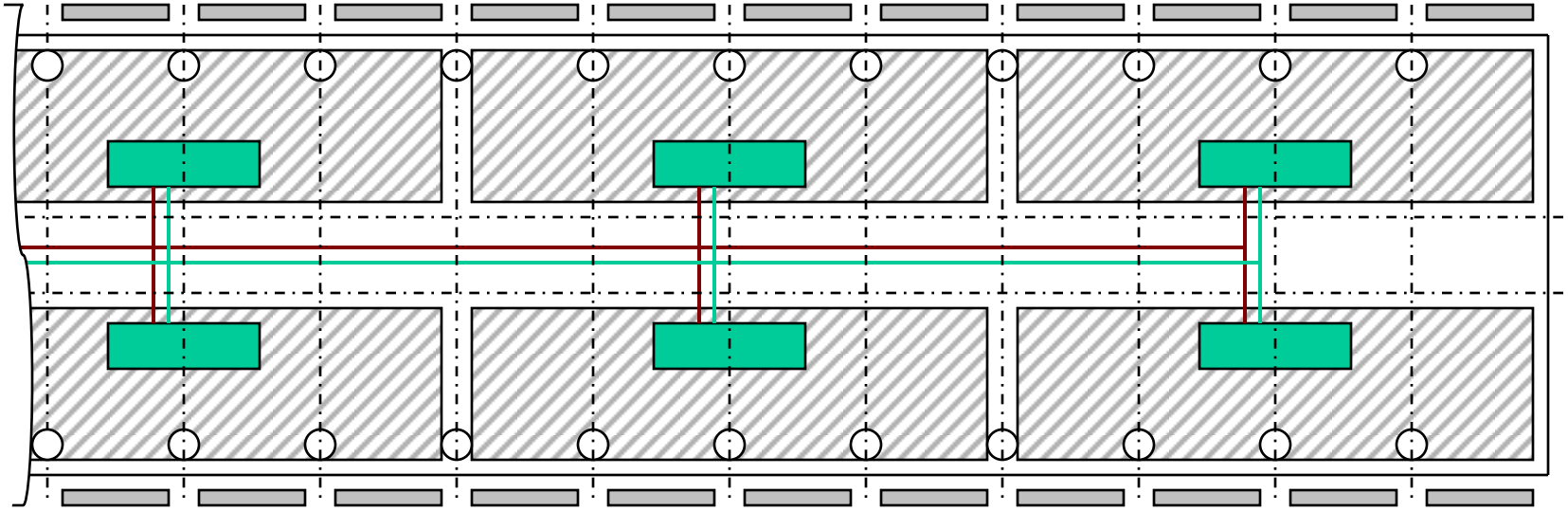
Limits with a conventional room automation concept



Problems are:

...due to the need of re-wiring!

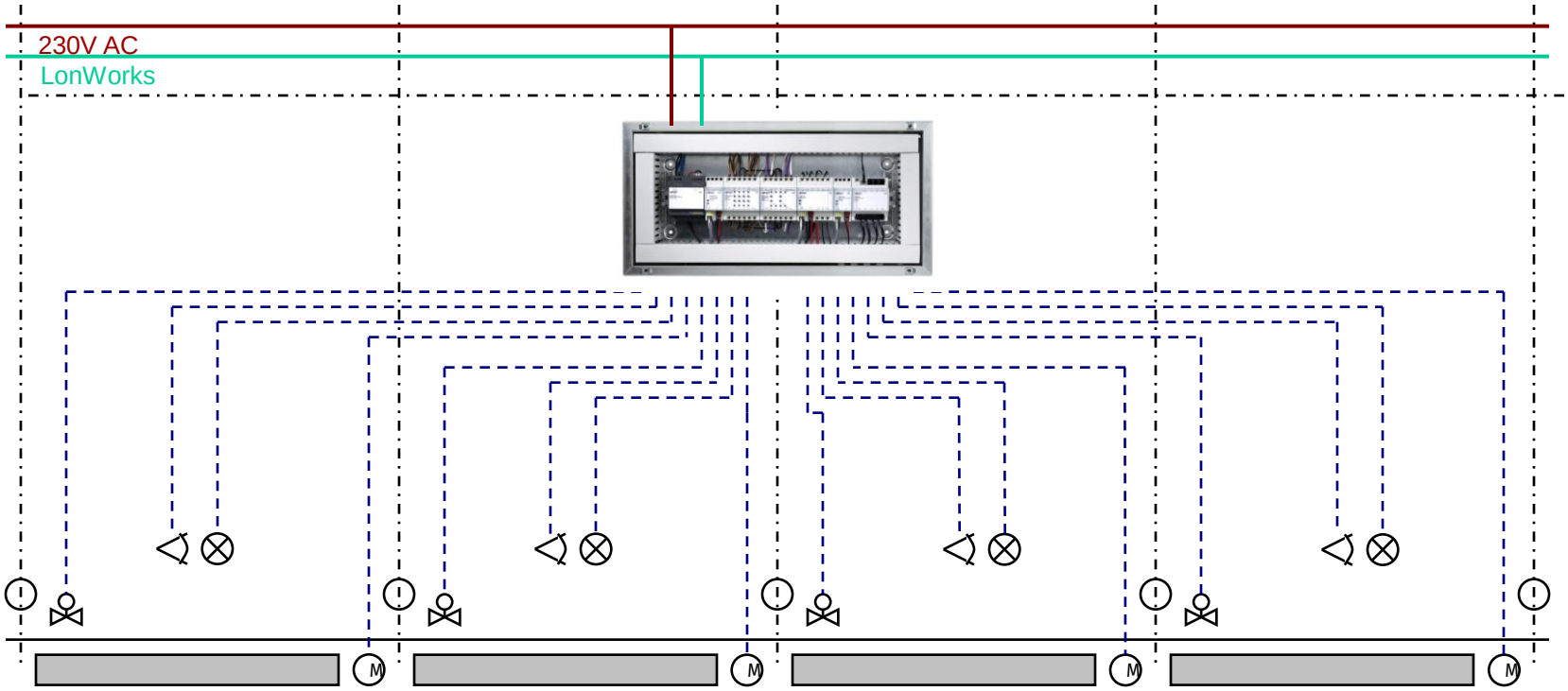
Flexible e.control® system is the solution!



Axis-oriented installation with e.control®:

1. Optimised installation layout – independent from utilisation ...
2. with only one modular system distribution box required ...

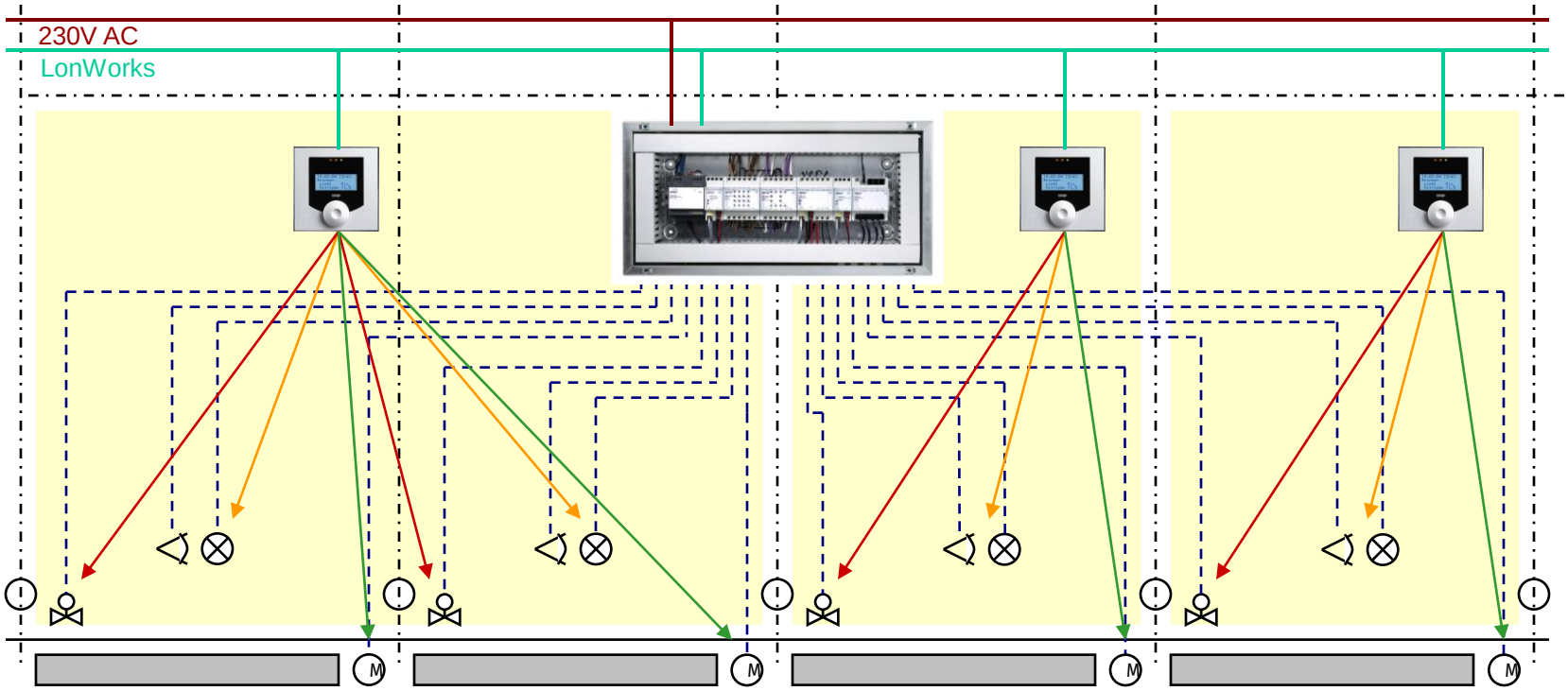
Flexible e.control® system is the solution!



Axis-oriented installation with e.control®:

3. for all axis-wise installed sensors and actuators.

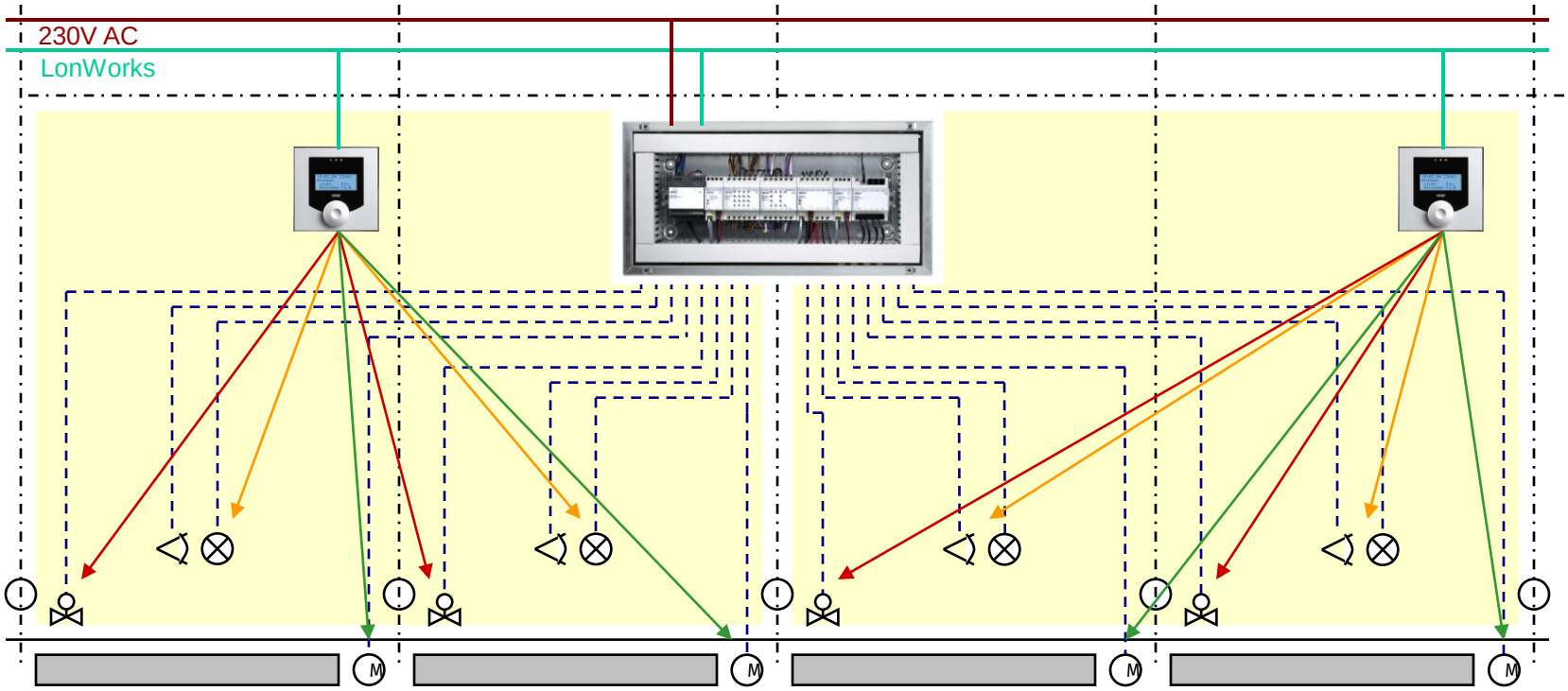
Flexible e.control® system is the solution!



Axis-oriented installation with e.control®:

3. for all axis-wise installed sensors and actuators.
4. After specifying room layouts, operation panels are installed!

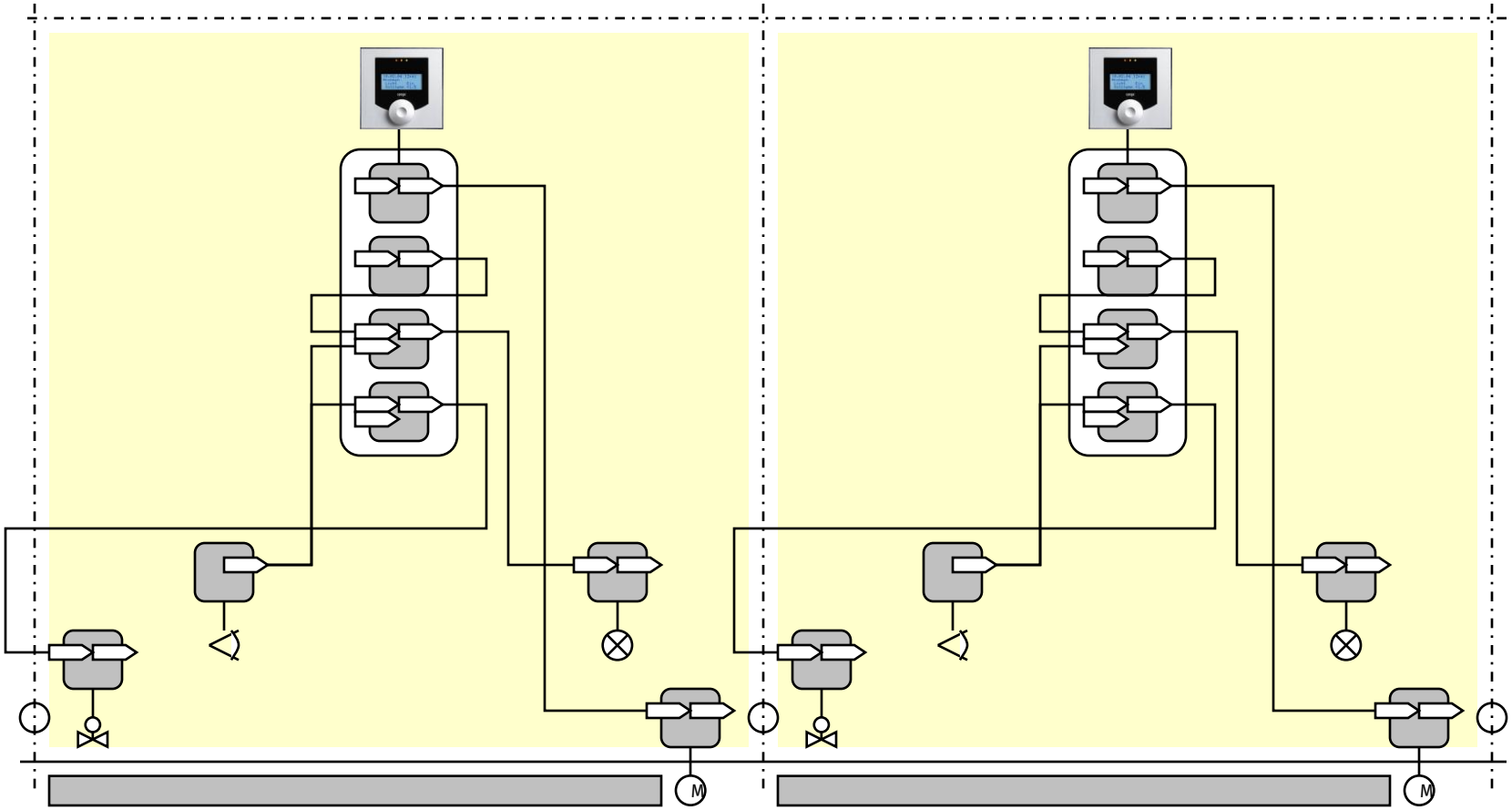
Flexible e.control® system is the solution!



Axis-oriented installation with e.control®:

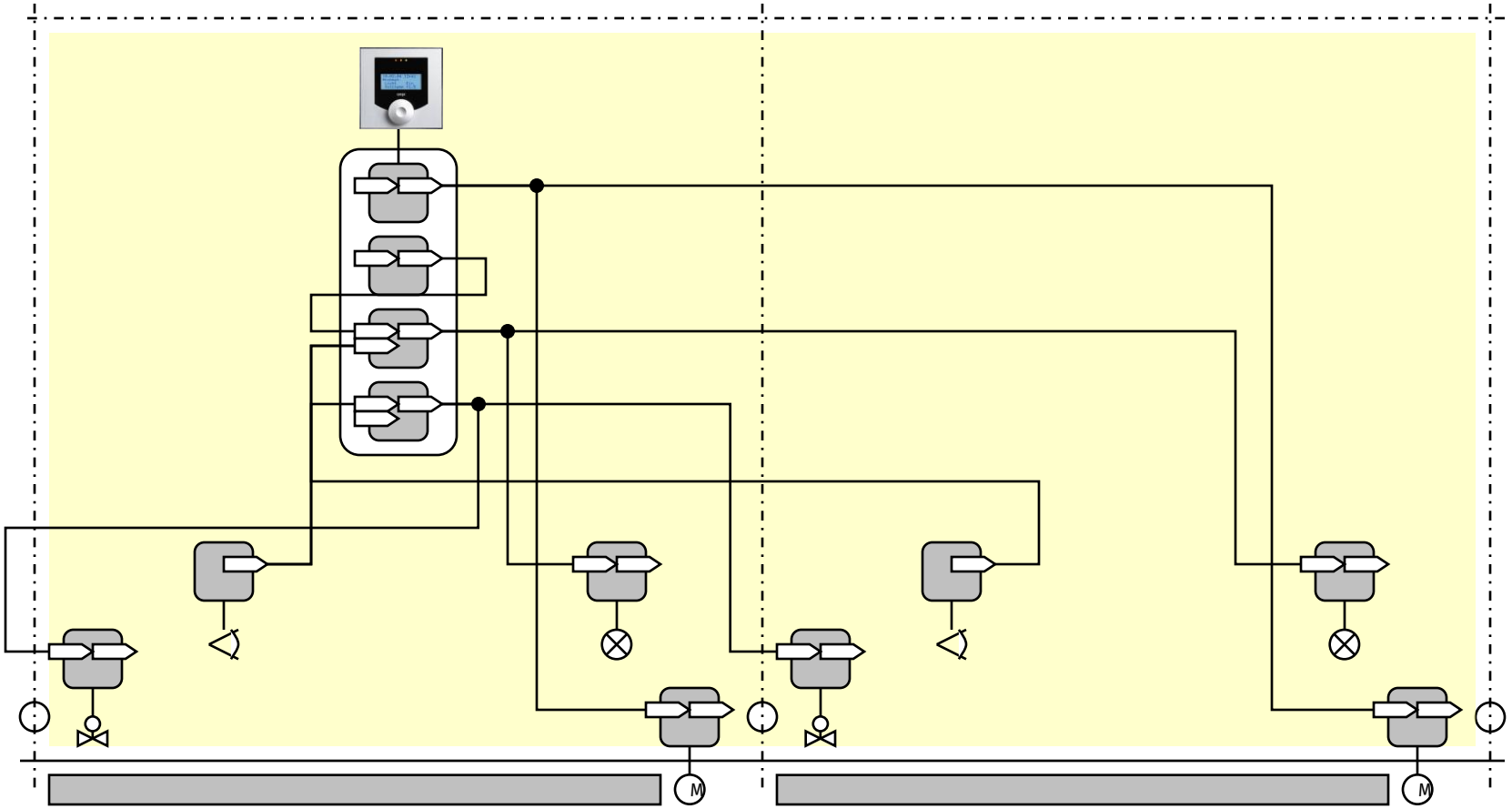
3. for all axis-wise installed sensors and actuators.
4. After specifying room layouts, operation panels are installed!
5. Changes can be carried out without re-wiring!

e.control®: flexibility even in software!



Due to the object-oriented software concept of e.control®
a change in utilisation ...

e.control®: flexibility even in software!



... is just a change of software bindings!

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Advantages of e.control® ...

- fully compliant to Lonmark standards
- applicable for all trades
- fully independent from utilisation
- cost-efficient through high modularity
- can be installed everywhere
- low installation costs
- low fire load
- fast and stable specification procedure
- fast installation through possibility of pre-fabrication
- easy configuration through object-oriented LNS plug-ins