

## Technical Data

### Performance

- 11MBit transmission rate
- Switchover time (switch off segment): approx. 2ms

### Functions

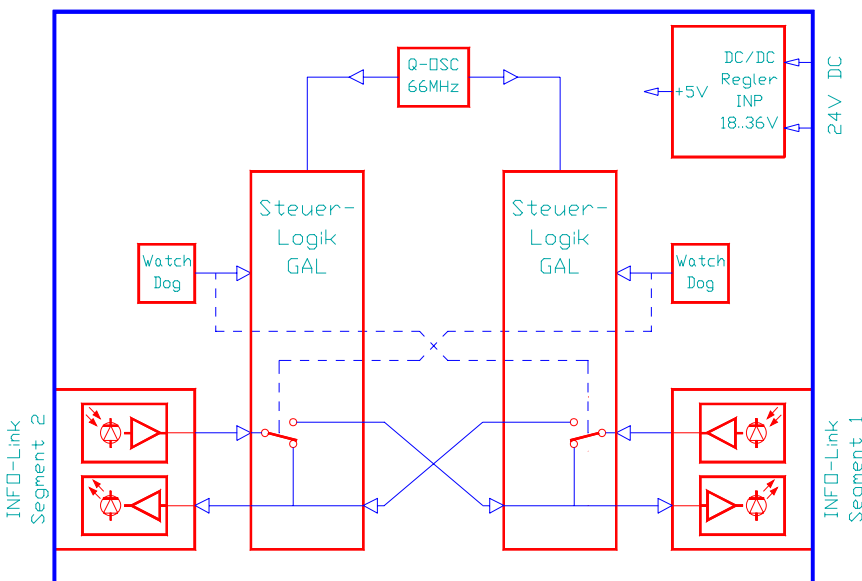
- Activation and deactivation of parts of the process.
- Connection/disconnection of options or expansions during operation without requiring re-wiring the fiberoptics.
- Increase in operational reliability by decoupling of failure-prone segments.
- Repeater in long sections (>50m)

The INFO-LEX allows the flexible expansion and segmenting of the INFO-Link.

In the event of a failure in the connected segment (power supply failure, node failure or Link rupture), this segment is

bridged without interruption and the rest of the Link remains fully operational. Switchover takes place within approx. 2ms.

In long sections (over 50m) the INFO-LEX can be applied as a repeater.



## Mode of Operation

In normal operation, all boards in the segments one and two are processed. If segment two is interrupted, e.g. because this part of the plant is shut down or because of operating trouble, The Link Expander will switch it off within approx. 2ms. Segment one will continue to operate properly. Once the interruption has been eliminated, the segment is automatically activated again.

This opens a number of application possibilities:

- Connection and disconnection of options or expansions without requiring rewiring.
- Possibility of shutting down parts of the plant.
- Increased operational reliability by decoupling of trouble-prone segments.
- Repeater in long segments (>50m)

The switchover process may cause individual faulty telegrams.

## Repeater

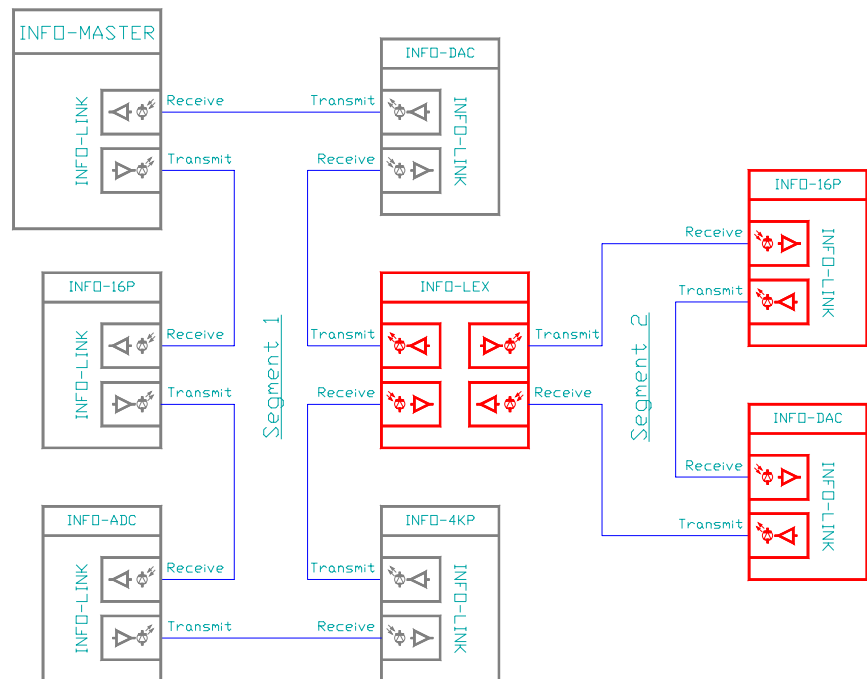
Each board is a repeater; this fact must be taken into account in planning the Link.

By skilled wiring of the INFO modules, the need for an additional repeater may be eliminated. The individual INFO boards are alternately included in the feed and return lines in long segments, allowing the maximum fiber length to be reduced to a minimum.

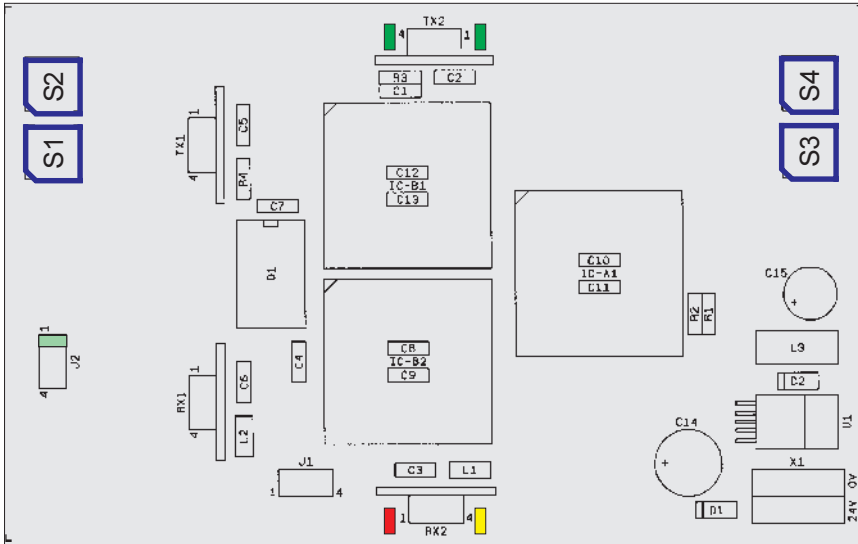
## Board address

The board can be easily incorporated without configuration in the Link; it does not require any special support by the firmware. As a result, no addressing is needed.

## Connection Example



## Assembly



### Addressing (blue)

No special addressing of the LEX board is necessary.

### Jumpers (green)

The jumpers influence the illumination intensity of the emitting LED and thereby the segment length of the fiberoptic cable to the next board.

Segment length	Jumper position
0 ... 10m	no jumper
8 ... 30m	> 10
20 ... 50m	> 30

### LEDs on receiver module

LED-red	=	+5V power supply
LED-yellow	=	INFO-Link receiver signal OK

### Jumper (light green)

The light green jumper does not have any function on the LEX board.

## Specifications

### Power supply

+24V, 112mA

### Climatic conditions

- Ambient temperature:
  - Storage: -20...+80°C
  - Operation: 0 ... +45°C
- Board temperature:
  - Operation: 0...+70 °C
- Relative air humidity
  - no condensation: 95%

### Mounting

- Connector DIN 41612, Type F-48
- Mounting on 35mm DIN bar
- Dimensions: 105 x 165 x 45mm (WxDxH)

Customized modifications, e.g. multi-port repeaters, are available as needed.