


## Data sheet

### SM 321 (321-1BL00)

#### Technical data

|   |   |
|---|---|
| <b>Order no.</b>  | <b>321-1BL00</b>  |
| Type  | SM 321  |
| <b>General information</b>  |   |
| Note  | -   |
| Features  | 32 inputs   |
| SPEED-Bus   | -   |
| <b>Current consumption/power loss</b>                               |   |
| Current consumption from backplane bus                              | 35 mA   |
| Power loss  | 6.5 W   |
| <b>Technical data digital inputs</b>                                |   |
| Number of inputs  | 32  |
| Cable length, shielded  | 1000 m  |
| Cable length, unshielded  | 600 m   |
| Rated load voltage  | -   |
| Current consumption from load voltage L+ (without load)             | -   |
| Rated value   | DC 20.4...28.8 V  |
| Input voltage for signal "0"  | DC 0...5 V  |
| Input voltage for signal "1"  | DC 15...28.8 V  |
| Input voltage hysteresis  | -   |
| Frequency range   | -   |
| Input resistance  | -   |
| Input current for signal "1"  | 7 mA  |
| Connection of Two-Wire-BEROs possible                               |  |
| Max. permissible BERO quiescent current                             | 1.5 mA  |
| Input delay of "0" to "1"   | 3 ms  |
| Input delay of "1" to "0"   | 3 ms  |
| Number of simultaneously utilizable inputs horizontal configuration | 32  |
| Number of simultaneously utilizable inputs vertical configuration   | 32  |
| Input characteristic curve  | IEC 61131-2, type 1   |
| Initial data size   | 4 Byte  |
| <b>Status information, alarms, diagnostics</b>                      |   |
| Status display  | green LED per channel   |
| Interrupts  | no  |
| Process alarm   | no  |
| Diagnostic interrupt  | no  |
| Diagnostic functions  | no  |
| Diagnostics information read-out                                    | none  |
| Supply voltage display  | none  |
| Group error display   | none  |

|                       |      |
|-----------------------|------|
| Channel error display | none |
|-----------------------|------|

### Isolation

|                                    |          |
|------------------------------------|----------|
| Between channels                   | -        |
| Between channels of groups to      | 16       |
| Between channels and backplane bus | ✓        |
| Insulation tested with             | DC 500 V |

### Datasizes

|                  |   |
|------------------|---|
| Input bytes      | 4 |
| Output bytes     | 0 |
| Parameter bytes  | 0 |
| Diagnostic bytes | 0 |

### Housing

|          |                 |
|----------|-----------------|
| Material | PPE             |
| Mounting | Rail System 300 |

### Mechanical data

|                    |                         |
|--------------------|-------------------------|
| Dimensions (WxHxD) | 40 mm x 125 mm x 120 mm |
| Weight             | 240 g                   |

### Environmental conditions

|                       |                 |
|-----------------------|-----------------|
| Operating temperature | 0 °C to 60 °C   |
| Storage temperature   | -25 °C to 70 °C |

### Certifications

|                     |     |
|---------------------|-----|
| UL508 certification | yes |
|---------------------|-----|