

Data sheet


SM 221 (221-1FF20)

Technical data

| | |
|---|------------------------------|
| Order no. | 221-1FF20 |
| Type | SM 221 |
| General information | |
| Note | - |
| Features | 8 inputs AC/DC 60...230 V |
| Current consumption/power loss | |
| Current consumption from backplane bus | 60 mA |
| Power loss | 3 W |
| Technical data digital inputs | |
| Number of inputs | 8 |
| Cable length, shielded | 1000 m |
| Cable length, unshielded | 600 m |
| Rated load voltage | - |
| Current consumption from load voltage L+ (without load) | - |
| Rated value | AC/DC 60...230 V |
| Input voltage for signal "0" | AC/DC 0...35 V |
| Input voltage for signal "1" | AC/DC 60...230 V |
| Input voltage hysteresis | - |
| Frequency range | 50...60 Hz |
| Input resistance | 136 kOhm |
| Input current for signal "1" | - |
| Connection of Two-Wire-BEROs possible | - |
| Max. permissible BERO quiescent current | - |
| Input delay of "0" to "1" | 25 ms |
| Input delay of "1" to "0" | 25 ms |
| Number of simultaneously utilizable inputs horizontal configuration | 8 |
| Number of simultaneously utilizable inputs vertical configuration | 8 |
| Input characteristic curve | - |
| Initial data size | 1 Byte |
| Status information, alarms, diagnostics | |
| 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 | 8 |
| Between channels and backplane bus |  |
| Insulation tested with | DC 500 V |

Datasizes

| | |
|------------------|---|
| Input bytes | 1 |
| Output bytes | 0 |
| Parameter bytes | 0 |
| Diagnostic bytes | 0 |

Housing

| | |
|----------|--------------------|
| Material | PPE / PA 6.6 |
| Mounting | Profile rail 35 mm |

Mechanical data

| | |
|--------------------|-------------------------|
| Dimensions (WxHxD) | 25.4 mm x 76 mm x 88 mm |
| Weight | 100 g |

Environmental conditions

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

Certifications

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