

Data sheet
SM 221 (221-1BF30)
Technical data

| | |
|---|-----------------------|
| Order no. | 221-1BF30 |
| Type | SM 221 |
| General information | |
| Note | - |
| Features | 8x DI DC 24 V |
| Current consumption/power loss | |
| Current consumption from backplane bus | 25 mA |
| Power loss | 2 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 | 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 | yes |
| 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 | 8 |
| Number of simultaneously utilizable inputs vertical configuration | 8 |
| Input characteristic curve | IEC 61131-2, type 1 |
| 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 | yes |
| 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 |
| Net weight | 90 g |
| Weight including accessories | - |
| Gross weight | - |

Environmental conditions

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

Certifications

| | |
|------------------|-----|
| UL certification | yes |
| KC certification | - |