

**Data sheet**  
**SM 221 (221-1BF21)**
**Technical data**

<b>Order no.</b>	<b>221-1BF21</b>
Type	SM 221
<b>General information</b>	
Note	-
Features	8 alarm inputs Delay time 0.2 ms
<b>Current consumption/power loss</b>	
Current consumption from backplane bus	25 mA
Power loss	2 W
<b>Technical data digital inputs</b>	
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"	0.2 ms
Input delay of "1" to "0"	0.2 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
<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
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**Isolation**

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Between channels	-
Between channels of groups to	8
Between channels and backplane bus	yes
Insulation tested with	DC 500 V

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**Datasizes**

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Input bytes	1
Output bytes	0
Parameter bytes	0
Diagnostic bytes	0

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**Housing**

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Material	PPE / PA 6.6
Mounting	Profile rail 35 mm

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**Mechanical data**

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Dimensions (WxHxD)	25.4 mm x 76 mm x 88 mm
Net weight	90 g
Weight including accessories	-
Gross weight	-

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**Environmental conditions**

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

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**Certifications**

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UL certification	yes
KC certification	-