

Data sheet
SM 221 (221-1BH50)
Technical data

Order no.	221-1BH50
Type	SM 221
General information	
Note	-
Features	16x DI DC 24 V NPN For conversion module UB4x With LED status display
Current consumption/power loss	
Current consumption from backplane bus	40 mA
Power loss	3.5 W
Technical data digital inputs	
Number of inputs	16
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 15...28.8 V
Input voltage for signal "1"	DC 0...5 V
Input voltage hysteresis	-
Signal logic input	Sourcing input
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	16
Number of simultaneously utilizable inputs vertical configuration	16
Input characteristic curve	-
Initial data size	2 Byte
Status information, alarms, diagnostics	
Status display	none
Interrupts	no
Process alarm	no
Diagnostic interrupt	no
Diagnostic functions	no
Diagnostics information read-out	none
Supply voltage display	none

Group error display	none
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Channel error display	none
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Isolation

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

Input bytes	2
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Output bytes	0
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Parameter bytes	0
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Diagnostic bytes	0
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Housing

Material	PPE / PA 6.6
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Mounting	Profile rail 35 mm
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Mechanical data

Dimensions (WxHxD)	25.4 mm x 76 mm x 88 mm
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Net weight	70 g
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Weight including accessories	-
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Gross weight	-
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Environmental conditions

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

UL certification	yes
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KC certification	-
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