Data sheet
SM 221 (221-1FD00)

Technical data

Order no.	221-1FD00
Type	SM 221
General information	
Note	-
Features	4 inputs AC/DC 90...230 V Isolation per channel
Current consumption/power loss	
Current consumption from backplane bus	40 mA
Power loss	2 W
Technical data digital inputs	
Number of inputs	4
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 90...230 V
Input voltage for signal "0"	AC/DC 0...35 V
Input voltage for signal "1"	AC/DC 90...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	4
Number of simultaneously utilizable inputs vertical configuration	4
Input characteristic curve	-
Initial data size	4 Bit
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

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Channel error display	none

Isolation

Between channels	✓
Between channels of groups to	1
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	90 g

Environmental conditions

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

Certifications

UL508 certification	yes

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