

Data sheet

SM 021 - Digital input (021-1BF01)

Technical data

Order no.	021-1BF01
Type	SM 021 - Digital input
Module ID	0013 9FC1
General information	
Note	-
Features	8x DI DC 24 V NPN Input filter time delay 0.5 ms
Current consumption/power loss	
Current consumption from backplane bus	35 mA
Power loss	0.9 W
Technical data digital inputs	
Number of inputs	8
Cable length, shielded	1000 m
Cable length, unshielded	600 m
Rated voltage power section supply	-
Permitted range	-
Current consumption from power section supply (without load)	-
Input rated voltage	DC 24 V
Permitted range	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	-
Signal logic input	Sinking input
Frequency range	-
Input resistance	-
Input capacitance	-
Input current for signal "1"	3 mA
Connection of Two-Wire-BEROs possible	yes
Max. permissible BERO quiescent current	0.5 mA
Input delay of "0" to "1"	max. 500 µs
Input delay of "1" to "0"	max. 500 µs
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	8 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
Module state	green LED
Module error display	red LED
Channel error display	none

Isolation

Between channels	-
Between channels of groups to	-
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 / PPE GF10
Mounting	Profile rail 35 mm

Mechanical data

Dimensions (WxHxD)	12.9 mm x 109 mm x 76.5 mm
Net weight	57 g
Weight including accessories	57 g
Gross weight	71 g

Environmental conditions

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

Certifications

UL certification	yes
KC certification	yes
UKCA certification	yes
ChinaRoHS certification	yes