


## Data sheet

### SM 021 (021-1BD70)

#### Technical data

<b>Order no.</b>	<b>021-1BD70</b>
Type	SM 021
Module ID	0F03 47C2
<b>General information</b>	
Note	-
Features	4 inputs Time stamp
<b>Current consumption/power loss</b>	
Current consumption from backplane bus	85 mA
Power loss	0.95 W
<b>Technical data digital inputs</b>	
Number of inputs	4
Cable length, shielded	1000 m
Cable length, unshielded	600 m
Rated load voltage	DC 24 V
Current consumption from load voltage L+ (without load)	15 mA
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"	3 mA
Connection of Two-Wire-BEROs possible	
Max. permissible BERO quiescent current	0.5 mA
Input delay of "0" to "1"	parameterizable 2 $\mu$ s - 3ms
Input delay of "1" to "0"	parameterizable 2 $\mu$ s - 3ms
Number of simultaneously utilizable inputs horizontal configuration	4
Number of simultaneously utilizable inputs vertical configuration	4
Input characteristic curve	IEC 61131-2, type 1
Initial data size	60 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	possible
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	✓
Insulation tested with	DC 500 V

### Safety

Safety protocol	-
Safety requirements	-
Secure user address	-
Watchdog	-
Two channels	-
Test pulse outputs	-

### Datasizes

Input bytes	20 / 60
Output bytes	0
Parameter bytes	12
Diagnostic bytes	20

### Housing

Material	PPE / PPE GF10
Mounting	Profile rail 35 mm

### Mechanical data

Dimensions (WxHxD)	12.9 mm x 109 mm x 76.5 mm
Weight	60 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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