

## Data sheet

### SM 021 - Digital input (021-1BF01)

#### Technical data

<b>Order no.</b>	<b>021-1BF01</b>
Type	SM 021 - Digital input
Module ID	0013 9FC1
<b>General information</b>	
Note	-
Features	8x DI DC 24 V 0.5 ms time delay
<b>Current consumption/power loss</b>	
Current consumption from backplane bus	35 mA
Power loss	0.9 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	-
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
<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
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
------------------------	----------

## Safety

Safety protocol	-
-----------------	---

Safety requirements	-
---------------------	---

Secure user address	-
---------------------	---

Watchdog	-
----------	---

Two channels	-
--------------	---

Test pulse outputs	-
--------------------	---

## 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
------------------	-----