

## Data sheet

### SM 021 (021-1SD00)

#### Technical data

<b>Order no.</b>	<b>021-1SD00</b>
Type	SM 021
Module ID	0C41 2E00

#### General information

Note	-
Features	4 inputs Safety

#### Current consumption/power loss

Current consumption from backplane bus	95 mA
Power loss	0.8 W

#### Technical data digital inputs

Number of inputs	4
Cable length, shielded	330 m
Cable length, unshielded	330 m
Rated load voltage	-
Current consumption from load voltage L+ (without load)	2 mA
Rated value	DC 20.4...28.8 V
Input voltage for signal "0"	DC 0...5 V
Input voltage for signal "1"	DC 11...28.8 V
Input voltage hysteresis	-
Frequency range	-
Input resistance	-
Input current for signal "1"	3 mA
Connection of Two-Wire-BEROs possible	yes
Max. permissible BERO quiescent current	1.5 mA
Input delay of "0" to "1"	parameterizable 1ms - 1s
Input delay of "1" to "0"	parameterizable 1ms - 1s
Number of simultaneously utilizable inputs horizontal configuration	4
Number of simultaneously utilizable inputs vertical configuration	4
Input characteristic curve	IEC 61131-2, type 3
Initial data size	4 Bit

#### Status information, alarms, diagnostics

Status display	green LED per channel
Interrupts	yes, parameterizable
Process alarm	no
Diagnostic interrupt	yes, parameterizable
Diagnostic functions	yes, parameterizable
Diagnostics information read-out	possible
Module state	green LED

Module error display	red LED
Channel error display	red ERR-LED and yellow ER2-LED

### Isolation

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

### Safety

Safety protocol	PROFIsafe V2
Safety requirements	SIL CL 3, PL e, Kat 4
Secure user address	1 - 4095
Watchdog	parameterizable 10ms - 1s
Two channels	Each 2 of 4 inputs switchable
Test pulse outputs	4

### Datasizes

Input bytes	5
Output bytes	5
Parameter bytes	44
Diagnostic bytes	20

### Housing

Material	PC / 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

UL certification	yes
KC certification	yes