


## Data sheet


### SM 022 (022-1BD50)

#### Technical data

<b>Order no.</b>	<b>022-1BD50</b>
Type	SM 022
Module ID	0105 AFA0
<b>General information</b>	
Note	-
Features	4 Low-Side outputs Output current 0.5 A
<b>Current consumption/power loss</b>	
Current consumption from backplane bus	65 mA
Power loss	0.5 W
<b>Technical data digital outputs</b>	
Number of outputs	4
Cable length, shielded	1000 m
Cable length, unshielded	600 m
Rated load voltage	DC 20.4...28.8 V
Current consumption from load voltage L+ (without load)	5 mA
Total current per group, horizontal configuration, 40°C	2 A
Total current per group, horizontal configuration, 60°C	2 A
Total current per group, vertical configuration	2 A
Output current at signal "1", rated value	0.5 A
Output delay of "0" to "1"	30 $\mu$ s
Output delay of "1" to "0"	100 $\mu$ s
Minimum load current	-
Lamp load	10 W
Parallel switching of outputs for redundant control of a load	not possible
Parallel switching of outputs for increased power	not possible
Actuation of digital input	
Switching frequency with resistive load	max. 1000 Hz
Switching frequency with inductive load	max. 0.5 Hz
Switching frequency on lamp load	max. 10 Hz
Internal limitation of inductive shut-off voltage	+45 V
Short-circuit protection of output	yes, electronic
Trigger level	1.7 A
Number of operating cycle of relay outputs	-
Switching capacity of contacts	-
Output data size	4 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
Supply voltage display	green LED
Group error display	red SF LED
Channel error display	none

### Isolation

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

### PWM data

PWM channels	-
PWM time basis	-
Period length	-
Minimum pulse width	-
PtP communication	-

### Safety

Safety protocol	-
Safety requirements	-
Secure user address	-
Watchdog	-
Two channels	-
Test pulse length	-
Circuit monitoring	-

### Datasizes

Input bytes	0
Output bytes	1
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
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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