

Data sheet SM 022 - Digital output (022-1BD50)

Technical data

Order no.	022-1BD50
Туре	SM 022 - Digital output
Module ID	0105 AFA0
General information	
Note	-
Features	4x DO DC 24 V 0.5 A NPN
Current consumption/power loss	
Current consumption from backplane bus	75 mA
Power loss	0.5 W
Technical data digital outputs	
Number of outputs	4
Cable length, shielded	1000 m
Cable length, unshielded	600 m
Rated load voltage	DC 24 V
Permitted range	DC 20.428.8 V
Current consumption from power section supply (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
Signal logic output	Sinking output
Output delay of "0" to "1"	30 µs
Output delay of "1" to "0"	100 µs
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	yes
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
Status information, alarms, diagnostics	
Status display	green LED per channel
Interrupts	no
Process alarm	no



Diagnostic functions no Diagnostic information read-out none Supply voltage display green LED Group error display red LED Channel error display none Between channels Between channels of groups to - Between channels and backplane bus yes Insulation tested with DC 500 V PWM data PVM channels - Period length - Minimum pulse width - *****Period length - Minimum pulse width - *********Ipput bytes 0 Output bytes 1 ***********Parameter bytes 0 Diagnostic bytes 0 ******************Parameter bytes 0 Diagnostic bytes 0 ************************************	Diagnostic interrupt	no
Supply voltage display green LED Group error display red LED Channel error display none Isolation Permission Between channels - Between channels of groups to - Between channels and backplane bus yes Insulation tested with DC 500 V PWM data - PWM data - PWM time basis - Period length - Minimum pulse width - Type of output - Datasizes - Input bytes 0 Output bytes 0 Output bytes 0 Diagnostic bytes 0 Parameter bytes 0 Diagnostic bytes 0 Mounting PPE / PPE GF10 Mounting Profile rail 35 mm Mechanical data Dimensions (WxHxD) 1.2.9 mm x 109 mm x 76.5 mm Dimensions (WxHxD) 1.2.9 mm x 109 mm x 76.5 mm 1.2.9 mm x 109 mm x 76.5 mm Weight including accessories	Diagnostic functions	no
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Certifications UL certification yes KC certification yes UKCA certification yes	Operating temperature	0 °C to 60 °C
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UKCA certification yes	UL certification	yes
•	KC certification	yes
ChinaRoHS certification yes	UKCA certification	yes
	ChinaRoHS certification	yes