

Data sheet SM 022 - Digital output (022-1BH00)

Technical data

Order no.	022-1BH00
Туре	SM 022 - Digital output
Module ID	0124 2F50
General information	
Note	
Features	16x DO DC 24 V 0.5 A
Current consumption/power loss	
Current consumption from backplane bus	35 mA
Power loss	1 W
Technical data digital outputs	
Number of outputs	16
Cable length, shielded	1000 m
Cable length, unshielded	600 m
Rated load voltage	DC 20.428.8 V
Current consumption from load voltage L+ (without load)	20 mA
Total current per group, horizontal configuration, 40°C	8 A
Total current per group, horizontal configuration, 60°C	8 A
Total current per group, vertical configuration	8 A
Output current at signal "1", rated value	0.5 A
Signal logic output	Sourcing output
Output delay of "0" to "1"	30 µs
Output delay of "1" to "0"	175 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	L+ (-45 V)
Short-circuit protection of output	yes, electronic
Trigger level	1 A
Number of operating cycle of relay outputs	-
Switching capacity of contacts	-
Output data size	16 Bit
Status information, alarms, diagnostics	
Status display	green LED per channel
Interrupts	yes, parameterizable
Process alarm	no
Diagnostic interrupt	yes, parameterizable



Diagnostics 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 PWM channels - PWM class - PWM display - Period length - Niminum pulse width - Type of output - Diagnostic bytes 0 Output bytes 0 Quitage bytes 2 Parameter bytes 1 <	Diagnostic functions	yes, parameterizable
Group error display red LED Channel error display none Isolation	Diagnostics information read-out	none
Channel error display none Isolation Petween channels Between channels of groups to - Between channels and backplane bus yes Insulation tested with DC 500 V PWM data PWM channels PWM time basis - Period length - Minimum pulse width - Type of output - Dataszizes - Input bytes 0 Output bytes 2 Parameter bytes 1 Diagnostic bytes 20 Housing PPE / PPE GF 10 Mounting PPE / PPE GF 10 Mounting PO (In rail 35 mm) Mechanical data PIN (In rail 35 mm) Mechanical data Dimensions (MxHxD) Me weight 60 g Gross weight 74 g Environmental conditions Contractions U. certifications yes U. certification in preparation U. Certification in preparation	Supply voltage display	green LED
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Mechanical dataDimensions (WxHxD)12.9 mm x 109 mm x 76.5 mmNet weight60 gWeight including accessories60 gGross weight74 gEnvironmental conditionsOperating temperature0 °C to 60 °CStorage temperature-25 °C to 70 °CCertificationsUL certificationyesKC certificationin preparationUKCA certification-	Material	PPE / PPE GF10
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Net weight Weight including accessories 60 g Gross weight 74 g Environmental conditions Operating temperature 0 °C to 60 °C Storage temperature -25 °C to 70 °C Certifications UL certification yes KC certification in preparation UKCA certification -	Mechanical data	
Weight including accessories 60 g Gross weight 74 g Environmental conditions Operating temperature 0 °C to 60 °C Storage temperature -25 °C to 70 °C Certifications UL certification yes KC certification in preparation UKCA certification -	Dimensions (WxHxD)	12.9 mm x 109 mm x 76.5 mm
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Environmental conditions Operating temperature 0 °C to 60 °C Storage temperature -25 °C to 70 °C Certifications UL certification yes KC certification in preparation UKCA certification -	Weight including accessories	60 g
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Storage temperature -25 °C to 70 °C Certifications UL certification yes KC certification in preparation UKCA certification -	Environmental conditions	
Certifications UL certification yes KC certification in preparation UKCA certification -	Operating temperature	0 °C to 60 °C
UL certification yes KC certification in preparation UKCA certification -	Storage temperature	-25 °C to 70 °C
KC certification in preparation UKCA certification -	Certifications	
UKCA certification -	UL certification	yes
	KC certification	in preparation
ChinaRoHS certification -	UKCA certification	-
	ChinaRoHS certification	-