

Data sheet

SM 322 (322-1BH41)

Technical data

Order no.	322-1BH41
Туре	SM 322
General information	
Note	-
Features	16x DO, in groups of 8 DC 24 V 2 A For 20 pole front connector
SPEED-Bus	-
Current consumption/power loss	
Current consumption from backplane bus	110 mA
Power loss	4 W
Technical data digital outputs	
Number of outputs	16
Cable length, shielded	1000 m
Cable length, unshielded	600 m
Rated load voltage	DC 24 V
Current consumption from load voltage L+ (without load)	30 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	2 A
Signal logic output	Sourcing output
Output delay of "0" to "1"	150 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	possible (only outputs group)
Parallel switching of outputs for increased power	possible (only outputs group)
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+ (-52 V)
Short-circuit protection of output	yes, electronic
Trigger level	3 A
Number of operating cycle of relay outputs	-
Switching capacity of contacts	-
Output data size	2 Byte
Status information, alarms, diagnostics	
Status display	green LED per channel
Interrupts	no
Process alarm	no

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Diagnostic functions no Diagnostics information read-out none Supply voltage display green LED per group Group error display red SF LED Channel error display none Isolation Between channels Between channels of groups to 8 Between channels and backplane bus yes Insulation tested with DC 500 V Datasizes Input bytes 0 Output bytes 2 Parameter bytes 0 Diagnostic bytes 0 Housing Material PPE Mounting Rail System 300 Mechanical data Dimensions (WxHxD) 40 mm x 125 mm x 120 mm Met weight including accessories - Gross weight - Environmental conditions - Operating temperature 0 °C to 60 °C Storage temperature -25 °C to 70 °C Certification yes	Diagnostic interrupt	no
Supply voltage display green LED per group Group error display red SF LED Channel error display none Isolation Permoder of the properties of groups to the part of groups to th	Diagnostic functions	no
Group error display red SF LED Channel error display none Isolation yes Between channels yes Between channels of groups to 8 Between channels and backplane bus yes Insulation tested with DC 500 V Datasizes Input bytes 0 Output bytes 2 Parameter bytes 0 Diagnostic bytes 0 Housing PPE Mounting Rail System 300 Mechanical data Dimensions (WxHxD) 40 mm x 125 mm x 120 mm Net weight including accessories - 2 Gross weight - - Environmental conditions Operating temperature 0 °C to 60 °C Storage temperature 0 °C to 60 °C Certifications Yes	Diagnostics information read-out	none
Channel error display none Isolation yes Between channels yes Between channels of groups to 8 Between channels and backplane bus yes Insulation tested with DC 500 V Datasizes Input bytes 0 Output bytes 2 Parameter bytes 0 Diagnostic bytes 0 Housing PPE Mounting Rail System 300 Mechanical data Dimensions (WxHxD) 40 mm x 125 mm x 120 mm Net weight including accessories - - Gross weight - - Environmental conditions Operating temperature 0 °C to 60 °C Storage temperature -25 °C to 70 °C Certifications UL certification yes	Supply voltage display	green LED per group
Between channels yes Between channels of groups to 8 Between channels and backplane bus yes Insulation tested with DC 500 V Datasizes Input bytes 0 Output bytes 2 Parameter bytes 0 Diagnostic bytes 0 Housing Material PPE Mounting Rail System 300 Mechanical data Dimensions (WxHxD) 40 mm x 125 mm x 120 mm Net weight 230 g Weight including accessories - Gross weight - Environmental conditions Operating temperature 0 °C to 60 °C Storage temperature -25 °C to 70 °C Certifications UL certification yes	Group error display	red SF LED
Between channels yes Between channels of groups to 8 Between channels and backplane bus yes Insulation tested with DC 500 V Datasizes Input bytes 0 Output bytes 2 Parameter bytes 0 Diagnostic bytes 0 Housing Material PPE Mounting Rail System 300 Mechanical data Dimensions (WXHXD) 40 mm x 125 mm x 120 mm Net weight 230 g Weight including accessories - Gross weight - Environmental conditions 0 °C to 60 °C Storage temperature 0 °C to 60 °C Certifications Ves	Channel error display	none
Between channels of groups to Between channels and backplane bus Between channels and backplane bus Insulation tested with DC 500 V Datasizes Input bytes 0 Output bytes 2 Parameter bytes 0 Diagnostic bytes 0 Housing Material PPE Mounting Rail System 300 Mechanical data Dimensions (WxHxD) At mm x 125 mm x 120 mm Net weight 230 g Weight including accessories Gross weight	Isolation	
Between channels and backplane bus Insulation tested with DC 500 V Datasizes Input bytes OUput bytes Parameter bytes OUput bytes	Between channels	yes
Insulation tested with DC 500 V Datasizes Input bytes 0 Output bytes 2 Parameter bytes 0 Diagnostic bytes 0 Housing Material PPE Mounting Rail System 300 Mechanical data Dimensions (WxHxD) A 0 mm x 125 mm x 120 mm Net weight 230 g Weight including accessories Gross weight Environmental conditions Operating temperature O °C to 60 °C Storage temperature -25 °C to 70 °C Certifications UL certification yes	Between channels of groups to	8
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Input bytes Output bytes 2 Parameter bytes O Diagnostic bytes O Housing Material PPE Mounting Rail System 300 Mechanical data Dimensions (WxHxD) 40 mm x 125 mm x 120 mm Net weight 230 g Weight including accessories Gross weight Environmental conditions Operating temperature O Storage temperature O Certifications UL certification 0 0 0 0 0 0 0 0 0 0 0 0 0	Insulation tested with	DC 500 V
Output bytes 2 Parameter bytes 0 Diagnostic bytes 0 Housing Material PPE Mounting Rail System 300 Mechanical data Dimensions (WxHxD) 40 mm x 125 mm x 120 mm Net weight 230 g Weight including accessories - Gross weight - Environmental conditions Operating temperature 0 °C to 60 °C Storage temperature -25 °C to 70 °C Certifications UL certification yes	Datasizes	
Parameter bytes Diagnostic bytes O Housing Material PPE Mounting Rail System 300 Mechanical data Dimensions (WxHxD) Net weight 230 g Weight including accessories Gross weight Environmental conditions Operating temperature O °C to 60 °C Storage temperature O °C to 70 °C Certifications UL certification yes	Input bytes	0
Diagnostic bytes Housing Material PPE Mounting Rail System 300 Mechanical data Dimensions (WxHxD) 40 mm x 125 mm x 120 mm Net weight 230 g Weight including accessories - Gross weight - Environmental conditions Operating temperature 0 °C to 60 °C Storage temperature -25 °C to 70 °C Certifications UL certification yes	Output bytes	2
Material PPE Mounting Rail System 300 Mechanical data Dimensions (WxHxD) 40 mm x 125 mm x 120 mm Net weight 230 g Weight including accessories - Gross weight - Environmental conditions Operating temperature 0 °C to 60 °C Storage temperature -25 °C to 70 °C Certifications UL certification yes	Parameter bytes	0
Material PPE Mounting Rail System 300 Mechanical data Dimensions (WxHxD) 40 mm x 125 mm x 120 mm Net weight 230 g Weight including accessories - Gross weight - Environmental conditions Operating temperature 0 °C to 60 °C Storage temperature -25 °C to 70 °C Certifications UL certification yes	Diagnostic bytes	0
Mechanical data Dimensions (WxHxD) 40 mm x 125 mm x 120 mm Net weight 230 g Weight including accessories - Gross weight - Environmental conditions Operating temperature 0 °C to 60 °C Storage temperature -25 °C to 70 °C Certifications UL certification yes	Housing	
Mechanical data Dimensions (WxHxD) 40 mm x 125 mm x 120 mm Net weight 230 g Weight including accessories - Gross weight - Environmental conditions Operating temperature 0 °C to 60 °C Storage temperature -25 °C to 70 °C Certifications UL certification yes	Material	PPE
Dimensions (WxHxD) 40 mm x 125 mm x 120 mm Net weight 230 g Weight including accessories - Gross weight - Environmental conditions Operating temperature 0 °C to 60 °C Storage temperature -25 °C to 70 °C Certifications UL certification yes	Mounting	Rail System 300
Net weight Weight including accessories - Gross weight - Environmental conditions Operating temperature O °C to 60 °C Storage temperature -25 °C to 70 °C Certifications UL certification yes	Mechanical data	
Weight including accessories Gross weight Environmental conditions Operating temperature O °C to 60 °C Storage temperature -25 °C to 70 °C Certifications UL certification yes	Dimensions (WxHxD)	40 mm x 125 mm x 120 mm
Gross weight - Environmental conditions Operating temperature 0 °C to 60 °C Storage temperature -25 °C to 70 °C Certifications UL certification yes	Net weight	230 g
Environmental conditions Operating temperature 0 °C to 60 °C Storage temperature -25 °C to 70 °C Certifications UL certification yes	Weight including accessories	-
Operating temperature 0 °C to 60 °C Storage temperature -25 °C to 70 °C Certifications UL certification yes	Gross weight	-
Storage temperature -25 °C to 70 °C Certifications UL certification yes	Environmental conditions	
Certifications UL certification yes	Operating temperature	0 °C to 60 °C
UL certification yes	Storage temperature	-25 °C to 70 °C
	Certifications	
KC certification yes	UL certification	yes
	KC certification	yes