

## Data sheet

SM 321 (321-1BL00)

## Technical data

Type SM 321  General information  Note - Features 32 inputs  SPEED-Bus	Order no.	321-1BL00
Note Festures 32 inputs  SPEED-Bus  Current consumption/power loss  Current consumption from backplane bus 35 mA Power loss 6.5 W  Technical data digital inputs  Number of inputs 32 Cable length, shielded 1000 m Cable length, unshielded 600 m Rated load voltage  Current consumption from load voltage L+ (without load)  Rated value DC 20.428.8 V Input voltage for signal '1' DC 1528.8 V Input voltage for signal '1' DC 1528.8 V Input voltage for signal '1' T DC 1528.8 V Input voltage for signal '1' T DC 1528.8 V Input voltage for signal '1' T T mA  Connection of Two-Wire-BEROs possible yes Max. permissible BERO quiescent current 1.5 mA Input delay of '0' to '1' 3 ms Input delay of '1' to '0' 3 ms Number of simultaneously utilizable inputs horizontal configuration 32  Input characteristic curve Initial data size 4 Byte  Status information, alarms, diagnostics  Status display green LED per channel Interrupts no Diagnostics information read-out none Diagnostics information read-out none Diagnostics information read-out none Diagnostics information read-out none	Туре	SM 321
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Input voltage for signal "1" DC 1528.8 V Input voltage hysteresis - Frequency range - Input resistance - Input current for signal "1" 7 mA Connection of Two-Wire-BEROs possible yes Max. permissible BERO quiescent current 1.5 mA Input delay of "0" to "1" 3 ms Input delay of "0" to "1" 3 ms Number of simultaneously utilizable inputs horizontal configuration Number of simultaneously utilizable inputs vertical configuration Input data size IEC 61131-2, type 1 Initial data size 4 Byte  Status information, alarms, diagnostics Status display green LED per channel Interrupts no Diagnostic interrupt no Diagnostic functions noe Diagnostics information read-out none Supply voltage display none	Rated value	DC 20.428.8 V
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Input delay of "1" to "0"  Number of simultaneously utilizable inputs horizontal configuration  Number of simultaneously utilizable inputs vertical configuration  32  Input characteristic curve  IEC 61131-2, type 1  Initial data size  4 Byte  Status information, alarms, diagnostics  Status display  green LED per channel  Interrupts  no  Process alarm  no  Diagnostic interrupt  no  Diagnostic functions  no  Diagnostics information read-out  Supply voltage display  none	Max. permissible BERO quiescent current	1.5 mA
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Input characteristic curve IEC 61131-2, type 1 Initial data size 4 Byte  Status information, alarms, diagnostics Status display green LED per channel Interrupts no Process alarm no Diagnostic interrupt no Diagnostic functions no Diagnostics information read-out Supply voltage display none		32
Initial data size 4 Byte  Status information, alarms, diagnostics  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 none	Number of simultaneously utilizable inputs vertical configuration	32
Status information, alarms, diagnostics  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 none	Input characteristic curve	IEC 61131-2, type 1
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 none	Initial data size	4 Byte
Interrupts no Process alarm no Diagnostic interrupt no Diagnostic functions no Diagnostics information read-out none Supply voltage display none	Status information, alarms, diagnostics	
Process alarm no Diagnostic interrupt no Diagnostic functions no Diagnostics information read-out none Supply voltage display none	Status display	green LED per channel
Diagnostic interrupt     no       Diagnostic functions     no       Diagnostics information read-out     none       Supply voltage display     none	Interrupts	no
Diagnostic functions no Diagnostics information read-out none Supply voltage display none	Process alarm	no
Diagnostics information read-out none Supply voltage display none	Diagnostic interrupt	no
Supply voltage display none	Diagnostic functions	no
	Diagnostics information read-out	none
Group error display none	Supply voltage display	none
	Group error display	none



Isolation		
Between channels	-	
Between channels of groups to	16	
Between channels and backplane bus	yes	
Insulation tested with	DC 500 V	
Datasizes		
Input bytes	4	
Output bytes	0	
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	
Weight	240 g	
Environmental conditions		
Operating temperature	0 °C to 60 °C	
Storage temperature	-25 °C to 70 °C	
Certifications		
UL certification	yes	
KC certification	yes	