

**Data sheet**  
**SM 321 (321-1BL00)**
**Technical data**

<b>Order no.</b>	<b>321-1BL00</b>
Type	SM 321
<b>General information</b>	
Note	-
Features	32x DI, two groups DC 24 V For 40 pole front connector
SPEED-Bus	-
<b>Current consumption/power loss</b>	
Current consumption from backplane bus	35 mA
Power loss	6.5 W
<b>Technical data digital inputs</b>	
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 20.4...28.8 V
Input voltage for signal "0"	DC 0...5 V
Input voltage for signal "1"	DC 15...28.8 V
Input voltage hysteresis	-
Signal logic input	Sinking input
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 "1" to "0"	3 ms
Number of simultaneously utilizable inputs horizontal configuration	32
Number of simultaneously utilizable inputs vertical configuration	32
Input characteristic curve	IEC 61131-2, type 1
Initial data size	4 Byte
<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	none

Group error display	none
Channel error display	none
<b>Isolation</b>	
Between channels	-
Between channels of groups to	16
Between channels and backplane bus	yes
Insulation tested with	DC 500 V
<b>Datasizes</b>	
Input bytes	4
Output bytes	0
Parameter bytes	0
Diagnostic bytes	0
<b>Housing</b>	
Material	PPE
Mounting	Rail System 300
<b>Mechanical data</b>	
Dimensions (WxHxD)	40 mm x 125 mm x 120 mm
Net weight	240 g
Weight including accessories	-
Gross weight	-
<b>Environmental conditions</b>	
Operating temperature	0 °C to 60 °C
Storage temperature	-25 °C to 70 °C
<b>Certifications</b>	
UL certification	yes
KC certification	yes