

## Data sheet

### SM 321S - SPEED-Bus (321-1BH70)

#### Technical data

<b>Order no.</b>	<b>321-1BH70</b>
Type	SM 321S - SPEED-Bus
<b>General information</b>	
Note	-
Features	16x fast DI SPEED-Bus 2.56 $\mu$ s...40 ms Parameterizable as Alarm/ETS For 20 pole front connector
SPEED-Bus	yes
<b>Current consumption/power loss</b>	
Current consumption from backplane bus	390 mA
Power loss	5 W
<b>Technical data digital inputs</b>	
Number of inputs	16
Cable length, shielded	1000 m
Cable length, unshielded	600 m
Rated load voltage	DC 20.4...28.8 V
Current consumption from load voltage L+ (without load)	15 mA
Rated value	DC 24 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"	parameterizable 2.56 $\mu$ s - 40ms
Input delay of "1" to "0"	parameterizable 2.56 $\mu$ s - 40ms
Number of simultaneously utilizable inputs horizontal configuration	16
Number of simultaneously utilizable inputs vertical configuration	16
Input characteristic curve	IEC 61131-2, type 1
Initial data size	2 Byte
<b>Status information, alarms, diagnostics</b>	
Status display	green LED per channel
Interrupts	yes
Process alarm	yes, parameterizable
Diagnostic interrupt	yes, parameterizable
Diagnostic functions	yes
Diagnostics information read-out	possible
Supply voltage display	green LED

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	2 / 48
Output bytes	0
Parameter bytes	0 / 66
Diagnostic bytes	16
<b>Housing</b>	
Material	PPE
Mounting	DIN rail SPEED-Bus
<b>Mechanical data</b>	
Dimensions (WxHxD)	40 mm x 125 mm x 120 mm
Net weight	190 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	-