

**Data sheet**  
**SM 323S - SPEED-Bus (323-1BH70)**
**Technical data**

<b>Order no.</b>	<b>323-1BH70</b>
Type	SM 323S - SPEED-Bus
<b>General information</b>	
Note	-
Features	16x DIO SPEED-Bus DC 24 V 0.5 A 100 kHz 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 24 V
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"	parameterizable 2.56µs - 40ms
Input delay of "1" to "0"	parameterizable 2.56µs - 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>Technical data digital outputs</b>	
Number of outputs	16
Cable length, shielded	1000 m
Cable length, unshielded	600 m
Rated load voltage	DC 24 V
Reverse polarity protection of rated load voltage	yes

Current consumption from load voltage L+ (without load)	50 mA
Output current at signal "1", rated value	0.5 A
Signal logic output	Sourcing output
Output delay of "0" to "1"	6.12 µs
Output delay of "1" to "0"	6.12 µs
Minimum load current	-
Lamp load	5 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. 100 kHz
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	1 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
Diagnostic interrupt	no
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	yes
Between channels of groups to	8
Between channels and backplane bus	yes
Insulation tested with	DC 500 V

#### Datasizes

Input bytes	2 / 48
Output bytes	2
Parameter bytes	0 / 66
Diagnostic bytes	16

#### Housing

Material	PPE
Mounting	DIN rail SPEED-Bus

#### Mechanical data

Dimensions (WxHxD)	40 mm x 125 mm x 120 mm
Net weight	200 g
Weight including accessories	-

Gross weight	-
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**Environmental conditions**

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Operating temperature	0 °C to 60 °C
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Storage temperature	-25 °C to 70 °C
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**Certifications**

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UL certification	yes
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KC certification	-
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