

**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<br>DC 24 V<br>0,5 A<br>100 kHz<br>SPEED-Bus |
| 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  | -   |
| 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   |

|   |                         |
|---|-------------------------|
| 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                  |
| <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  | green LED per group     |
| Group error display   | red SF LED              |
| Channel error display   | none                    |
| <b>Isolation</b>  |                         |
| Between channels  | yes                     |
| Between channels of groups to                                 | 8                       |
| Between channels and backplane bus                            | yes                     |
| Insulation tested with  | DC 500 V                |
| <b>Datasizes</b>  |                         |
| Input bytes   | 2 / 48                  |
| Output bytes  | 2                       |
| 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  | 200 g                   |
| Weight including accessories                                  | -                       |
| Gross weight  | -                       |
| <b>Environmental conditions</b>                               |                         |
| Operating temperature   | 0 °C to 60 °C           |
| Storage temperature   | -25 °C to 70 °C         |

**Certifications**

|                  |     |
|------------------|-----|
| UL certification | yes |
| KC certification | -   |