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## 3.1.5 Digital Input Module SM 321; DI 16 × 120 VAC

### Order No.

6ES7 321-1EH01-0AA0

### Characteristics

The digital input module SM 321; DI 16 × 120 VAC has the following salient features:

- 16 input points, isolated in groups of 4
- 120 VAC rated input voltage
- Suitable for switches and 2/3/-wire AC proximity switches



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## Terminal Connection Diagram and Block Diagram

Figure 3-6 shows the terminal connection diagram and block diagram of the digital input module SM 321; DI 16 × 120 VAC.

You will find the detailed technical specifications of the SM 321; DI 16 × 120 VAC on the following page.

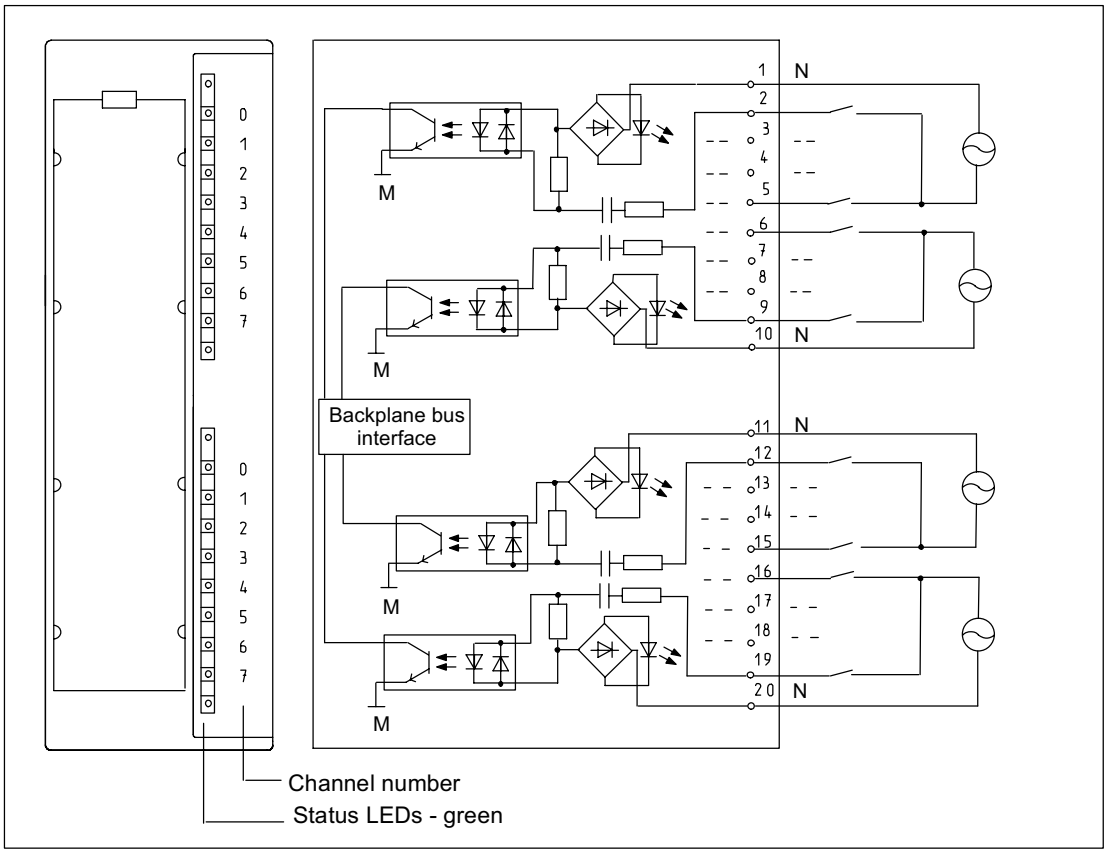



Figure 3-6 Module View and Block Diagram of Digital Input Module SM 321; DI 16 × 120 VAC



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| Dimensions and Weight | |
|---|---|
| Dimensions W × H × D | 40 × 125 × 120 mm (1.56 × 4.88 × 4.68 in.) |
| Weight | approx. 225 g (7.88 oz.) |
| **Module-Specific Data** | |
| Number of input points | 16 |
| Length of cable | |
| • Unshielded | max. 600 m (654 yd.) |
| • Shielded | max. 1000 m (1090 yd.) |
| **Voltages, Currents, Potentials** | |
| Rated load voltage L1 | – |
| Number of input points that can be driven simultaneously | |
| • Horizontal installation up to 60 °C | 16 |
| • Vertical installation up to 40 °C | 16 |
| Galvanic isolation | |
| • between channels and backplane bus | Yes |
| • between the channels | Yes |
| in groups of | 4 |
| Permiss. potential differences | |
| • between $M_{internal}$ and the inputs | 120 VAC |
| • between the inputs of different groups | 250 VAC |
| Insulation tested with | 1500 VAC |
| Current drawn | |
| • from backplane bus | max. 16 mA |
| Module power losses | typ. 4.1 W |
| **Status, Interrupts, Diagnostics** | |
| Status display | Green LED per channel |
| Interrupts | None |
| Diagnostics functions | None |

| Sensor Selection Data | |
|---|---|
| Input voltage | |
| • Rated value | 120 VAC |
| • for “1” signal | 79 to 132 V |
| • for “0” signal | 0 to 20 V |
| • Frequency range | 47 to 63 Hz |
| Input current | |
| • at “1” signal | typ. 6 mA |
| Input delay | |
| • from “0” to “1” | max. 25 ms |
| • from “1” to “0” | max. 25 ms |
| Input characteristic | to IEC 1131, type 1 |
| Connection of 2-wire BEROs | Possible |
| • Permissible closed-circuit current | max. 1 mA |



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