C7-CPUs	Order number
C7-613	6ES7613-1CA01-0AE3
C7-635 Touch	6ES7635-2EB01-0AE3
C7-635 Key	6ES7635-2EC01-0AE3
C7-636 Touch	6ES7636-2EB00-0AE3
C7-636 Key	6ES7636-2EC00-0AE3

⚠ WARNING

Use of the module

This module must be configured in a STEP 7 project in which the correct address assignment and allocation of the input/output point is ensured. Using the module without having first carried out this configuration work can lead to machines or processes operating in an unexpected manner.

If machines or processes do run in an unexpected manner, this can result in death, serious injury, and/or material damage.

3.7 Digital input module SM 321; DI 32 x DC 24 V; (6ES7321-1BL00-0AA0)

Order number: "Standard module"

6ES7321-1BL00-0AA0

Order number: "SIPLUS S7-300 module"

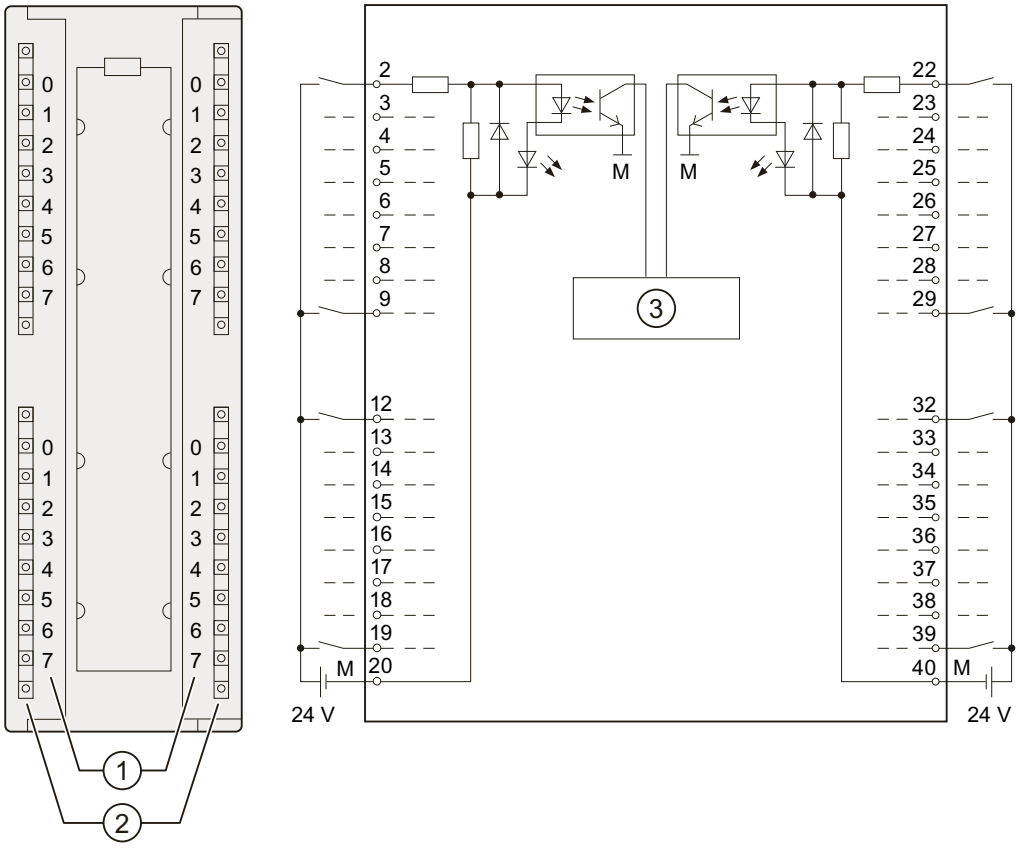
6AG1321-1BL00-2AA0

Properties

Properties of SM 321; DI 32 x DC 24 V:

- 32 inputs, isolated in groups of 16
- Rated input voltage 24 V DC
- Suitable for switches and 2-/3-/4-wire proximity switches (BEROs)

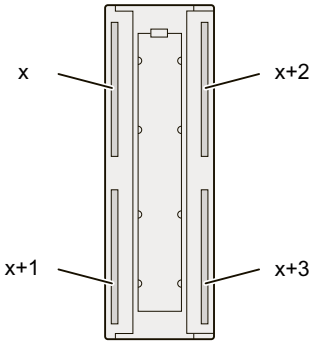
Wiring and block diagram of SM 321; DI 32 x DC 24 V



① Channel number
② Status display - green
③ Backplane bus interface

Terminal assignment of SM 321; DI 32 x DC 24 V

The figure below shows how channels are assigned to addresses (input byte x up to input byte x+3).



Technical specifications of SM 321; DI 32 x DC 24 V

Technical specifications	
Dimensions and weight	
Dimensions W x H x D (mm)	40 x 125 x 120
Weight	ca. 260 g
Module-specific data	
Supports isochronous mode	No
Number of inputs	32
Cable length • Unshielded • Shielded	 Max. 600 m Max. 1000 m
Front connector	40-pin
Voltages, currents, potentials	
Number of simultaneously controlled inputs • Horizontal mounting position to 40 °C to 60 °C • Vertical arrangement to 40 °C	 32 16 32
Electrical isolation • between channels and the backplane bus • Between channels – in groups of	 yes Yes 16
Isolation test voltage	500 V DC
Current consumption • From the backplane bus	 Max. 15 mA
Power loss of the module	Typ. 6.5 W
Status, interrupts, diagnostics	
Status display	Green LED per channel
Interrupts	None
Diagnostic functions	None
Encoder selection data	
Input voltage • Rated value • "1" signal • "0" signal	 24 V DC 13 to 30 V - 30 to + 5 V
Input current • "1" signal	 Typ. 7 mA
Input delay • "0" to "1" transition • "1" to "0" transition	 1.2 ms to 4.8 ms 1.2 ms to 4.8 ms