

AI 723F

Freelance hardware selector



The S700 I/O family can be used as direct I/O for AC 700F and AC 900F Freelance controllers or as PROFIBUS remote I/O with AC 700F, AC 900F, or other PROFIBUS Masters.

S700 I/O has a small footprint - the modules are featured with a high packing density, and several modules are available with inputs and outputs mixed in one module. These modules cover a wide variety of applications and give maximum flexibility. The S700 I/O is compliant with cULus and certified for installation in hazardous locations according to UL Class I, Division 2 (Groups A, B, C, and D).

The analog input module AI 723F comes with 16 input channels in two groups. Each of these channels can be individually configured depending on its intended usage. Possible applications are sensing a voltage (0...10 V or -10...+10 V), sensing a current (0...20 mA or 4...20 mA), or temperature measurement (platinum or nickel resistance thermometers Pt100, Pt1000, Ni1000) in two- or three-wire configuration.

Configuring the inputs as digital inputs is also possible. The inputs are electrically isolated from the other electronic circuitry of the module. There is no potential separation between the channels. This module is usable as direct I/O for AC 700F/AC 900F controllers and as PROFIBUS remote I/O.

Features and benefits

- 16 input channels in 2 groups
- usable as PROFIBUS remote I/O
- usable as direct I/O for AC 700F/AC 900F

| General info | |
|--------------------|-----------------|
| Article number | 3BDH000376R0005 |
| Type | Analog Input |
| Life cycle status | Active |
| Number of channels | 16 |
| Signal type | Analog Input |
| HART | No |
| SOE | No |
| Redundancy | No |
| Mechanics | S700 |

| Detailed data | |
|------------------------------------|---|
| Resolution | 12 bits (+ sign) |
| Input voltage range, "0" | -30 V...+5 V |
| Input voltage range, "1" | +13 V...+30 V |
| Input impedance | Voltage: > 100 kOhm, current: ca. 330 Ohm |
| Maximum field cable length | 100 m |
| Common mode voltage input | 24 VDC |
| Power dissipation | 6 W |
| Current consumption +24 V external | 0.15 A |

| Diagnostics | |
|-------------|--|
| Front LED's | 40 LEDs for signals and error indication. One yellow LED per channel, the LED is ON when the input/output signal is high (signal 1). |

| Environment and certification | |
|-------------------------------|---|
| CE mark | Yes |
| Electrical safety | EN 50178, IEC 61131-2, UL 61010-1, UL 61010-2-201 |
| Hazardous Location | cULus Class 1 Div 2 |
| Protection rating | IP20 |
| Climatic operating conditions | Operation 0 ... +60 °C, Storage -40 ... +70 °C |
| RoHS compliance | DIRECTIVE/2011/65/EU |
| WEEE compliance | DIRECTIVE/2012/19/EU |

| Dimensions | |
|------------|---------|
| Width | 67.5 mm |
| Depth | 76 mm |
| Height | 54 mm |
| Weight | 300 g |

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