

# AI 731F

## 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 731F comes with 8 input channels.

### Features and benefits

- 8 configurable analog inputs in two groups (1.0...2.7 and 2.0...2.7 as well as 3.0...3.7 and 4.0...4.7)

#### General info

Article number	3BDH000385R0005
Type	Analog Input
Life cycle status	Active
Number of channels	8
Signal type	Analog Input
HART	No
SOE	No
Redundancy	No
Mechanics	S700

## Detailed data

Resolution	Voltage -1...+1V, -5...+5V, -10 V... +10 V: 15 bits plus sign Voltage 0...5 V, 0...10 V: 15 bits Current 0...20 mA, 4...20 mA, -20...+20 mA: 15 bits Temperature: 0.1 °C (0.18 °F), 0.01°C at Pt100 -50°C...+70°C
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).
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## 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	130 g

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