

DATA SHEET

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
Туре	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 05 V, 010 V: 15 bits Current 020 mA, 420 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).

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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