DATA SHEET

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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