

DX 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 digital input/output module DX 731F has 12 channels. This module can be used as direct I/O on AC 900F and AC 700F and in addition also as Profibus Slave I/O.

Features and benefits

- 8 digital inputs 115 - 230 VAC in two groups (2.0...3.3)
- 4 relay outputs (2.4...2.7), with one switch-over contact each
- as direct I/O and PROFIBUS I/O

General info

Article number	3BDH000387R0005
Type	Digital Input/Output
Life cycle status	Active
Number of channels	12
Signal type	Digital Input/Output
HART	No
SOE	No
Redundancy	No
Mechanics	S700

Detailed data

Input voltage range, "0"	-30 V...+5 V
Input voltage range, "1"	115-230 VAC
Maximum field cable length	1000 m (shielded), 600 m (unshielded)
Common mode voltage input	24 VDC/230 VAC
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

—
solutions.abb/freelance
solutions.abb/controlsystems

—
We reserve the right to make technical changes to the products or modify the contents of this document without prior notice. With regard to purchase orders, the agreed particulars shall prevail. ABB does not assume any responsibility for any errors or incomplete information in this document.

We reserve all rights to this document and the items and images it contains. The reproduction, disclosure to third parties or the use of the content of this document – including parts thereof – are prohibited without ABB's prior written permission.

Copyright© 2025 ABB All rights reserved