

DIM6·3

Digital input module

Data sheet

4921240707-A



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1. About the 600 series

1.1 About the hardware modules

The 600 series is a PLC-based programmable automation controller (PAC) suitable for land, marine, and wind power control applications. It is class approved, designed to marine specifications and can withstand very harsh operating conditions.

The controller is a highly flexible, modular PLC and I/O system that is designed for usage across a wide range of industrial applications. It is reliable, robust and flexible.

EtherCAT is used as native communication protocol both as the backplane communication and as interconnection between multiple 600 series racks via electrical or fibre optical connections. Other DEIF EtherCAT I/O modules or third party EtherCAT I/O modules can also be connected.

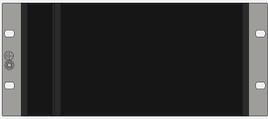
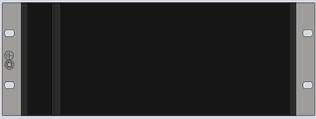
The hardware modules feature:

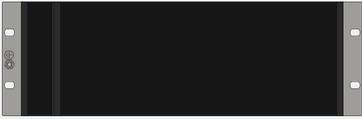
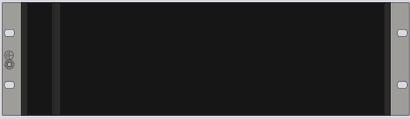
- Placement flexibility in the rack.
- Remove, replace, or add on-site.
- Automatically recognised.
- Configurable input and output functions (digital and analogue):
 - Digital input functions: Commands from operators or 3rd party equipment, changing configuration, operating information.
 - Digital output functions: Alarm status, commands to 3rd party equipment, operating information.
 - Analogue input functions: External set points, operating information, supervised binary inputs.
 - Analogue output functions: Operating information.

NOTE All slots must be covered during operation and blind modules can be used to cover unused slots.

Rack sizes

The controller rack is available in six different sizes:

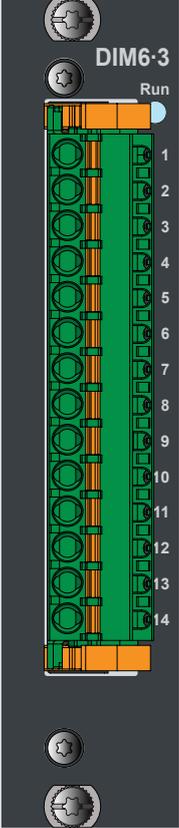
Rack	Slots	Ground plate dimensions HxDxW (mm)	Weight (g)	Rack
Rack6-4	4	122.0 x 113.9 x 182.4	715	
Rack6-6	6	122.0 x 113.9 x 233.2	870	
Rack6-8	8	122.0 x 113.9 x 284.4	1020	
Rack6-10	10	122.0 x 113.9 x 334.8	1175	

Rack	Slots	Ground plate dimensions HxDxW (mm)	Weight (g)	Rack
Rack6-12	12	122.0 x 113.9 x 385.6	1335	
Rack6-14	14	122.0 x 113.9 x 436.4	1500	

2. Technical specifications

2.1 DIM6-3 module specifications

DIM6-3 has 8 x digital inputs. The 8 digital inputs are grouped in two groups, and isolated from other potentials.

Digital input module			
	Power supply	From backplane using PDM6-1 module or PDM6-2 module	
	Backplane interfaces	1 x EtherCAT IN (Port 1) - LVDS 1 x EtherCAT OUT (Port 2) - LVDS	
	8 digital inputs	Input	High: 40 to 220 V DC (DC input) / 70 to 240 V AC (AC input) Low: <40 V DC (DC input) / 40 V AC (AC input) Reference to common
		Load	Typically 1 mA ($V_{in} < 120$ V DC / AC) or 2 mA ($V_{in} < 220$ V DC / AC) $Z_{in} = 119$ kOhm
		Response time	ON < 5 mS OFF < 20 mS
		Isolation	8 inputs in two groups Isolated from other potentials, 3250 V 50 Hz for 1 minute
	Size	25.40 mm (1 slot)	
	Weight	115 g (incl. connectors)	
	Power consumption	Typical 0.65 W	
	Connector, grip (included by default)	14 pole connector, push-in terminals, with snap lock FKC 2,5/14-ST-5,08-LR	
	Connector, screw	14 pole connector, push-in terminals, with screw lock FKC 2,5/14-STF-5,08	

3. Legal information

3.1 Disclaimer and copyright

Third party equipment

DEIF takes no responsibility for the installation or operation of any third party equipment, for example, a **genset**. Contact the **manufacturer** or third party equipment company if you have any doubt about how to install or operate the third party equipment.

Open source software

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The product continuously monitors the operating temperature and stores this information in a log file on the device. DEIF uses this information for service purpose and to validate if issues with the product are covered by the warranty.

The software packages supplied are believed to be of the highest quality. Due to the nature of the software development process, it is possible that there are hidden defects in the software which may affect its use, or the operation of any software or device developed with this software package.

DEIF does not undertake responsibility for determining whether this package is suitable for the application, nor for ensuring the correct operation of the application software and hardware.

The warranty does not cover product wear parts, such as:

- Internal flash disc
- If applicable, SD card (purchased separately)
- Replaceable coil-cell battery, used for the real-time clock (available as a spare part)

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