

DF22

smar
First in Fieldbus

MAY / 06
DF22
VERSION 2.0

DC Discrete Output Module



smar

web: www.smar.com

**Specifications and information are subject to change without notice.
For the latest updates, please visit the SMAR website above.**

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AVOIDING ELECTROSTATIC DISCHARGES



ATTENTION

Electrostatic discharges may damage semiconductors electronics components found in the boards. Generally, they may occur when these components or connectors pins in the modules and racks are touch, without using any appropriated equipment to prevent the electrostatic discharges.

It is extremely recommendable the following procedures:

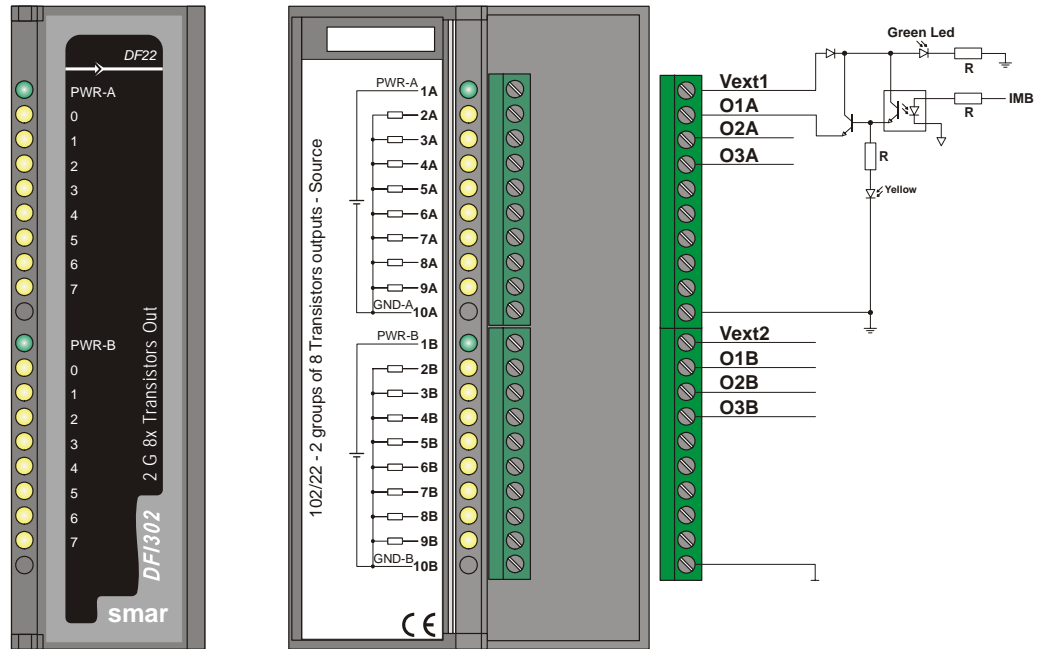
- Before handling the modules and racks, discharge the electrostatic charge found in the body through appropriated equipments or even touching grounded equipments;
- Avoid touching in the electronics components or in the connectors pins in the racks and modules.

DF22 – DC DISCRETE OUTPUT MODULE

DF22 (2 Groups of 8 DC Outputs - Source)

Description

This Module is designed with NPN transistors that are able to drive relays , incandescence lamps, solenoids and other loads with up to 1 A per output. It has two groups of 8 optically isolated transistor outputs.



Technical Specifications

ARCHITECTURE	
Number of Outputs	16
Number of Groups	2
Number of Points per Group	8

ISOLATION	
Optical Isolation up to	5000 Vac

EXTERNAL POWER	
Voltage Source for Outputs	20 to 35 Vdc
Maximum Consumption	65 mA
Power Supply Indicator	Green LED

INTERNAL POWER	
Provided by the IMB bus	5 Vdc @ 70 mA Maximum
Total Maximum Dissipation	0.35 W
Power Supply Indicator	None

OUTPUTS	
Maximum Switched Voltage	35 Vdc
Maximum Saturation Voltage	0.3 V @ 1 A
Maximum Current per Output	1 A
Status Display	Yellow LED
Indicator Logic	ON when the transistor is on
Maximum Leakage Current	200 μ A @ 35 Vdc
Switch Capacity for Bulbs	15 W

INDEPENDENT PROTECTION PER OUTPUT	
Over-Current Protection	5.3 A

SWITCHING INFORMATION	
Time from 0 to 1	600 μ s
Time from 1 to 0	300 μ s

DIMENSIONS AND WEIGHT	
Dimensions (W x D x H)	39.9 x 137.0 x 141.5 mm ; (1.57 x 5.39 x 5.57 in)
Weight	0.260 kg

CABLES	
One wire	14 AWG (2 mm ²)
Two wires	20 AWG (0.5 mm ²)

