I/O Modules MSR 311



This module has 24 short-circuit proof +24 V/2 A (positive switching) digital outputs, which are back-readable and therefore can also be used as inputs with a +24 V level for reading the signal conditions 0 and 1.

The power supply for each channel group is monitored for over voltage.

Digital Outputs		
	Number of outputs	24 (back-readable)
	Short-circuit proof	yes
	Maximum continuous current load allowed per channel	2 A
	Maximum total current 4 outputs	6 A (100 % of on time)
	Maximum total current (complete module)	36 A (100 % of on time)
	Voltage drop over power supply (output active)	≤ 1 V
	Residual current (output inactive)	≤ 12 mA
	Turn-on delay	typically 100 µs
	Turn-off delay	typically 100 µs
	Status display	LEDs: outputs yellow, voltage monitor red

Status of the Back-Readable Outputs

Number		24	
Input volta	je	typically +24 V	maximum +30 V
Signal level		low: < +4.5 V	high: > +12 V
Switching t	nreshold	typically +8 V	
Input curre	nt	typically 5 mA at +24 V	
Input delay		typically 5 ms	

Electrical Requirements

	Supply voltage for Outputs +24 V /1-6	18-30 V DC
	Current consumption of supply voltage for the outputs +24 V /1-6 $$	corresponds to the load on the digital outputs (maximum of 6 A per group of 4)

Voltage Monitor Supply voltage +24 V /1-6 power supply < 18 V (error LED lights red)</td>

Article Number and Miscellaneous		
	Article number	18-001-311
	Hardware version	1.x

Environmental Conditions Storage temperature -30 ... +85 °C Operating temperature 0... +60 °C Humidity 0... +60 °C EMC stability in accordance with EN 61000-6-2:2001 (industrial area) Shock resistance EN 60068-2-27 150 m/s² Protection type EN 60529 IP20

