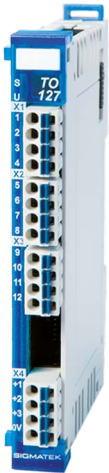


S-DIAS Digital Output Module TO 127



with 12 short-circuit proof digital outputs

The S-DIAS TO 127 digital output module has 12 short-circuit proof digital outputs in three groups (+24 V /1.7 A). The supply voltage for each group is monitored for low voltage.

In compliance with the safety-relevant requirements of the BG Institute for Occupational Safety (BIA), the outputs on the primary (+5 V) and the secondary (+24 V) sides are isolated using optic couplers (according to application class 3, pollution degree 2). In the monitoring circuits of the voltage supply for each channel group, the primary and secondary sides are also isolated with optic couplers.

Digital Output Specifications

Number	12
Short-circuit proof	yes
Maximum continuous current load allowed per channel	1.7 A
Maximum total current (group)	5,1 A at 40 °C ambient temperature 3,4 A at 55 °C ambient temperature
Maximum total current (complete module)	15,3 A at 40 °C ambient temperature 10,2 A at 55 °C ambient temperature
Maximum braking energy of outputs (inductive load)	maximum 0.65 Joules/channel maximum 1.95 Joules/ 4 channels
Leakage current (output inactive)	≤ 12 µA
Turn-on delay	< 200 µs
Turn-off delay	< 200 µs

Electrical Requirements

Supply voltage +24 V /1-3	18-30 V DC	
Current consumption of voltage supply +24 V /1-3	corresponds to the load on the digital outputs	
Voltage supply from S-DIAS bus	+5 V	
Current consumption on the S-DIAS bus (+5 V supply)	typically 45 mA	maximum 50 mA

Voltage Monitor

Supply voltage +24 V /1-3	supply voltage > 18 V (corresponding DC OK-LED lights green)
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Article Number and Miscellaneous

Article number	20-007-127
Dimensions	12.5 x 104.2 x 72 mm (W x H x D)
Standard	UL 508 (E247993)
Approvals	UL, cUL, CE

Environmental Conditions

Storage temperature	-20 ... +85 °C	
Environmental temperature	0 ... +60 °C	
Humidity	0-95 %, non-condensing	
Operating conditions	pollution degree 2 altitude up to 2000 m	
EMC resistance	in accordance with EN 61000-6-2 (industrial area)	
EMC noise generation	in accordance with EN 61000-6-4 (industrial area)	
Vibration resistance	EN 60068-2-6	3.5 mm from 5-8.4 Hz 1 g from 8.4-150 Hz
Shock resistance	EN 60068-2-27	15 g
Protection type	EN 60529	IP20