S-DIAS Digital Output Module
TO 161

with 16 short-circuit proof digital outputs

The S-DIAS TO 161 digital output module has 16 short-circuit proof digital outputs in two groups (+24 V/0.5 A, short-circuit proof). The supply voltage for each group is monitored for low voltage.

Digital Output Specifications

Number	16
Short-circuit proof	yes
Maximum continuous current load allowed per channel	0.5 A
Maximum total current (per 8-channel group)	4 A (100 % of on-time)
Maximum total current (entire module)	8 A (100 % of on time)
Maximum braking energy of outputs (inductive load)	maximum 1 Joule/channel
Residual current (off)	≤ 10 µA
Turn-on delay	< 200 µs
Turn-off delay	< 200 µs

Electrical Requirements

Supply voltage +24 V /1-2	18-30 V DC	
Current consumption of voltage supply +24 V /1-2	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 /1-2	supply voltage > 18 V (corresponding DC OK-LED lights green)

Article Number and Miscellaneous

Article number	20-007-161
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