

S-DIAS Digital Input Module

DI 205



with 20 ground-switching digital inputs

The S-DIAS digital input module DI 205 is equipped with 20 ground-switching inputs with a pull-up resistor to a +24 V signal. Each input can be connected to ground with a transistor or switch. An open switch corresponds to the signal condition „0“, switches connected to ground correspond to the signal condition „1“. Input filters are available to suppress noise signals occurring in the signal lines.

Digital Input Specifications

	Number	20	
	Input signal	GND switching	
	Pull-up voltage	typically +24 V	maximum +30 V
	Collector current	typically 3 mA	maximum 4 mA
	Saturation voltage	maximum 1 V at 3 mA	
	Residual current	maximum 200 µA	
	Input delay	typically 5 ms	
	Status display	LED (green) lights when the input signal < 1 V	

Electrical Requirements

Voltage supply from S-DIAS bus	+5 V		+24 V	
Current consumption on the S-DIAS bus	typically 35 mA	maximum 50 mA	maximum 60 mA (at +24 V)	maximum 80 mA (at +30 V)

Article Number and Miscellaneous

Article number	20-006-205
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 1g from 8.4-150 Hz
Shock resistance	EN 60068-2-27	15 g
Protection type	EN 60529	IP20