

S-DIAS Digital Input Module with 2 Incremental Encoder Inputs

DI 204



with 2 incremental encoder inputs
14 digital inputs

The S-DIAS digital input module DI 204 is equipped with two incremental inputs with a TTL signal and 14 inputs with a +24 V signal for reading the signal states "0" and "1". To suppress noise in the signal lines, input filters are provided. The incremental encoder values can be latched.

Incremental Encoder Input Specifications

Number	2	
Input voltage	typically 0.5 V	maximum 5.5 V
Signal level	low 0.8 V	high 2.0 V
Switching threshold	typically 1.4 V	
Input current	1.5 mA at +5 V	
Input delay	typically 10 µs	
Input frequency	maximum 25 kHz	
Counter frequency	maximum 100 kHz in incremental counter mode with 4-edge analysis	

Digital Input Specifications

Number	14	
Input voltage	typically +24 V	maximum +30 V
Signal level	low: < +8 V	high: > +14 V
Switching threshold	typically +11 V	
Input current	3.7 mA at +24 V	
Input delay	typically 0.5 ms	

Electrical Requirements

Voltage supply from S-DIAS bus	+5 V	
Current consumption on the S-DIAS bus (+5 V supply)	typically 38 mA	maximum 43 mA

Article Number and Miscellaneous

Artikel number	20-006-204	
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 ... +55 °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