

S-DIAS Digital Mixed Module DM 162



with 4 digital inputs
4 digital inputs with counter function and time measurement
8 short-circuit proof digital outputs

The S-DIAS DM 162 digital mixed module has four digital inputs +24 V/3.7 mA/5 ms), four digital inputs with counter function and time measurement and eight short-circuit proof digital outputs (+24 V/0.5 A). The supply voltage is monitored for under voltage.

Digital Input Specifications

Number	8	
Input voltage	typically +24 V	maximum +30 V
Signal level	low: < +5 V	high: > +15 V
Input current	3.7 mA at +24 V	
Input delay	Input 1-4: 1 µs (counter, time measurement) Input 5-8: 5 ms	
Input frequency of counter input	25 kHz in normal counter mode or in incremental counter mode with 4-edge analysis	
Counter frequency	25 kHz in normal counter mode 100 kHz in incremental counter mode with 4-edge analysis	
Time measurement	measurement of the time between Sync and edge change in µs for input 1-4	

Digital Output Specifications

Number	8	
Short-circuit proof	yes	
Maximum continuous current load allowed per channel	0.5 A	
Maximum total current (all 8 outputs)	4 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

Power supply +24 V	18-30 V DC	
Current consumption of the +24 V supply	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 50 mA	maximum 55 mA

Voltage Monitor

Power supply +24 V	supply voltage > 18 V (DC OK-LED lights green)
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Article Number and Miscellaneous

Artikel number	20-008-162	
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