

S-DIAS Digital Mixed Module DM 046



with 4 back-readable digital outputs

The S-DIAS Digital Mixed Module DM 046 has four back-readable digital outputs (+24 V/1.7 A). These can also be used as digital inputs (24 V/3.7 mA/0.5 ms) The supply voltage is monitored for under voltage. The back-readable outputs are galvanically separated.

Digital Input Specifications

Number	4	
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	
Galvanic isolation	yes (isolation voltage 500 V)	

Digital Output Specifications

Number	4	
Short-circuit proof	yes	
Maximum continuous current load/channel allowed	1.7 A	
Maximum total current (entire module)	6.8 A	
Maximum braking energy of outputs (inductive load)	maximum 0.65 Joule/channel maximum 1.95 Joule/4 channels	

Residual current output (off)	≤ 12 µA	
Turn-on delay	< 200 µs	
Turn-off delay	< 200 µs	
Galvanic isolation	yes (isolation voltage 500 V)	

Electrical Requirements

External power supply +24 V	18-30 V DC	
External current consumption Power supply +24 V	corresponds to the load on the digital outputs + outgoing 24 V supply maximum 6.8 A	
Voltage supply from S-DIAS bus	+5 V	
Current consumption on the S-DIAS bus (+5 V supply)	typically 39 mA	maximum 50 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	20-008-046	
Dimensions	12.5 x 104.2 x 72 mm (W x H x D)	
Standard	UL in preparation	
Approvals	UL in preparation	

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