X-DIAS Digital Mixed Module
XDM 161

with 8 digital inputs
8 short-circuit proof digital outputs

The X-DIAS Digital Mixed Module XDM 161 has eight digital inputs (+24 V/3.7 mA/5 ms) and 8 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	typically 5 ms	

Digital Output Specifications

	Number	8
	Short-circuit proof	yes
	Maximum continuous current load allowed per channel	0.5 A
	Maximum total current (entire module)	4 A (100 % Power-on time) 2 A (above 55 °C ambient temperature)
	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
	Galvanical separation	no

Electrical Requirements

	Voltage supply from S-DIAS bus	+24 V DC ±20 % (SELV/PELV) UL: NEC Class 2	
	Protection class	III	
	Current consumption on the S-DIAS bus (+24 V supply)	typically 13 mA	maximum 17 mA
	Supply for I/Os	+24 V ±20 %	
	Current consumption I/O supply	corresponds to the load of the digital outputs	

Voltage Monitoring

	Supply voltage +24 V	supply voltage > 19.2 V (DC OK - LED lights up green)

Article Number and Miscellaneous

	Article number	21-008-161	
	Dimensions	12.5 x 101.8 x 62.7 mm (W x H x D)	
	Printed circuit board coating	no	
	Approvals	CE	yes
		UL	designed according to UL
		Functional Safety	no
		UKCA	no

Environmental Conditions

	Storage temperature	-40 ... +85 °C	
	Environmental temperature	-25 ... +60 °C	
	Humidity	0-95 %, non condensing	
	Installation altitude above sea level	0-2000 m without derating > 2000 m up to a maximum of 5000 m with derating of the maximum environmental temperature by 0.5 °C per 100 m	
	Operating conditions	pollution degree 2	
	Noise emission	≤ 70 dB	
	EMV-resistence	EN 61000-6-2 (industrial area)	
	EMV-noise generation	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 (147.15 m/s²)
	Protection type	EN 60529/NEMA 250	IP20/Type1