CREDA
INNOVATIONS

CredaLink technical specs

October 2024

Revision 1.9.0

Technical specifications

Power supply	12…24 V⎓ nom. (11…30 V⎓) Reverse polarity protection using diodes
Max current consumption 24VDC= controller Relay contacts and MOSFET outputs not included	5A
Microcontroller	AVR
Microcontroller programming language	Arduino IDE v2.0
Memory	FRAM data 32 k
Real Time Clock	RTC with battery backup
Inputs	8 analog 0…10 V or 0…20 mA or 4…20 mA (Hardware switch) 10 – 14 – 16 bits ADC 12 digital (galvanically isolated) (opto-coupler)
Voltage range at digital inputs (1-12)	0…30 V⎓
Current for each digital input (1-12)	50 mA
Conversion error for analog 0…10V inputs (1-8)	2% of full scale
Conversion error for analog 0…20mA inputs (1-8)	2% of full scale
Max cable length for digital inputs (1-12)	30 meters
Max cable length for analog inputs (1-8)	15 meters
Digital outputs	8 power relays with bistable coil
MAX output contact rating (each output)	3A at 250V~ (750VA)
PWM (1-2)	2 MOSFET P-channel output 6A / MAX 36 VDC source input
Analog output (1-4)	0…10V and 0..20mA out (16 bit DAC)
Duty cycle to voltage error for analog output	2% of full scale
Communication ports	RS-485 half-duplex with automatic data direction management RS-232 - standard I2C isolated 2 PWM digital in/out pins 5 V, max 40 mA
Baud Rates on COMM ports	1200 to 115200
Housing	standard PETG for DIN rail
Operating temperature	0 … 50 °C
Storage temperature	-20 …70 °C
Protection degree	IP20