Loop Powered Trip Amplifiers 20ALM



The 20ALM is an input loop powered trip amplifier, deriving its power from the input signal

- High or low alarm option
- Low voltage drop
- Setpoints available on front panel as 0.4 to 2V signal (4 to 20mA)
- LED indication of alarm
- Unique low cost solution

Options and ordering codes



Dimensions (mm)



Connection details

1. Relay output -ve 2. Relay output +ve 3. Input channel +ve 4. Input channel -ve



Description

The output of the 20ALM is a single pole, normally open, solid state relay which can be configured to close either above or below the adjustable setpoint. The switched output can be connected to any potential within 1kV of the transmitter supply, while transients of 2.5kV can be withstood.

The relay is designed to switch AC or DC.

The trip amplifier is typically used to activate a warning or control system override when a sensor output goes above or below a pre-set limit. Alternatively, the unit can be used for simple on/off control, having a built in switching hysteresis.

The device is housed in an ultra-compact DIN-Rail mounted enclosure, only 18mm wide.

Recommended operating conditions

Input current	4-20mA		
Relay contact voltage	24Vac/dc or 110Vac		
Relay current (max) 300mA @ 24Vdc – 130mA @ 110Vac			
Output resistance 5 Ω (on) 24V type – 24 Ω on 110Vac type			

Environmental conditions

Storage temperature	-40-70°C
Operating ambient	0-55°C
Relative humidity	0-90% RH



Specification

Parameter	Min	Тур	Max	Comments	
Supply voltage		Loop power			
Supply current	4mA		20mA		
Full scale volt drop		3.4V	3.5V	At 20mA input	
Relay type 1 current			315mA	Rated at 24Vdc/ac	
Relay type 2 current			130mA	Rated at 110Vac	
Output resistance 'ON'			5Ω/24Ω	24V/110Vac relay type	
Setpoint hysteresis		50µA		Other values available	
Trip point accuracy			±0.25%		
Temperature coefficient		±100ppm/°C			
Trip point drift		±100ppm/°C			
Relay time response		10ms			
Operating ambient	0°C		55°C		
Relative humidity	0%		90%		
Isolation voltage	1kV				
Surge voltage	2.5kV for 50µS			Transient of 10kV/µS	
Notes	Setpoint is adjusted by 20 turn potentiometers on the front panel. Setpoint can be checked by measuring the 0.4 to 2V (4 to 20mA) voltage on the front panel terminals. High or low alarm is selectable using internal link. Closed output contact is indicated by a red LED on the front panel.				

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